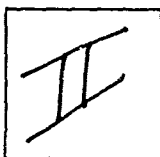


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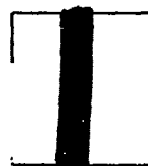
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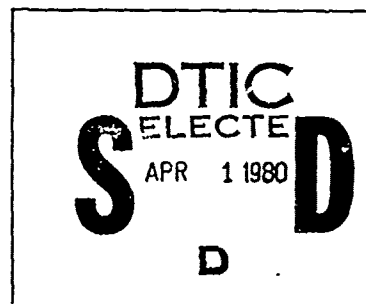
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**DATA PROCESSING BRANCH
USAFETAC
Air Weather Service (MAC)**

REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

K I SAWYER AFB MI WEAN# 4836
N 45 21 W 087 24 FLD ELEV 1221 FT SAW WMO#

PARTS A-F

FOR FROM HOURLY OBS: DEC 63-NOV 78
FOR FROM DAILY OBS: DEC 59-NOV 78

APR 26 1979

FEDERAL BUILDING

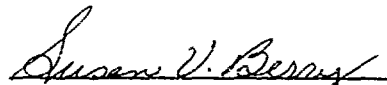
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SUSAN V. BERRY, 2 Lt USAF
Information Retrieval
Manager

FOR THE COMMANDER



WALTER S. BURGHMANN
Scientific & Technical
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4. TITLE (and Subtitle)		5. TYPE OF REPORT & PERIOD COVERED
Revised Uniform Summary of Surface Weather Observations (RUSSWO)- K I Sawyer AFB, Gwinn, Michigan		Final rept.
7. AUTHOR(s)		6. PERFORMING ORG. REPORT NUMBER
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
*RUSSWO	Daily temperature	Atmospheric pressure
Snowfall	Extreme snow depth	Extreme surface winds
Climatology	Sea-level pressure	Psychrometric summary
Surface Winds	Extreme temperature	Ceiling versus visibility
Relative humidity	*Climatological data	(over)
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		
This report is a six-part statistical summary of surface weather observations for K I Sawyer AFB, Gwinn, Michigan It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling Versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)		

DD FORM
1 JAN 73 1473

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19. Percentge frequency of distribution tables
Dry-bulb temperature versus wet-bulb temperature
Cumulative percentage frequency of distribution tables

* Michigan

* K I Sawyer AFB, MI

20. and dew-point temperatures and relative humidity); and (F) Pressure
Summary (means, standard, deviations, and observation counts of
station pressure and sea-level pressure). Data in this report are
presented in tabular form, in most cases in percentage frequency of
occurrence or cumulative percentage frequency of occurrence tables.

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U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

PART C SURFACE WINDS

PART D CEILING VERSUS VISIBILITY

SKYCOVER

PART E DAILY M. C, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC-DRY VS WET BULB

MEAN & STD DEV. (DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

PART F STATION PRESSURE

SEA LEVEL PRESSURE

STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY _____

APRIL _____

JULY _____

OCTOBER _____

FEBRUARY _____

MAY _____

AUGUST _____

NOVEMBER _____

MARCH _____

JUNE _____

SEPTEMBER _____

DECEMBER _____

STATION NO ON SUMMARY		STATION NAME		LATITUDE		LONGITUDE		FIELD ELEV (FT)		CALL SIGN		WMO NUMBER	
94836		K I SAWYER AFB MI/GWINN		N 46 21		W 087 24		1221		SAW			
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY				
			FROM	TO			FIELD (FT)	HT ABOVE					
1	K I Sawyer AFB MI	AFB	Dec 59	Feb 63	N 46 21	W 087 24	1220	1240 ft	24				
2	Same	Same	Mar 63	Nov 78	Same	Same	1221	Same	24				
NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE							
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND								
1	Dec 59	Located 2/3 mi NE of control tower and 75 yards E of taxiway	GMQ-11	RO-2	13 ft								
2	Jun 61	Located on rnwy complex	Same	Same	15 ft								
3	Apr 63	1. Located on S end of field 1900 ft from end of rnwy and 600 ft in from rnwy (between rnwy and taxiway) 2. Located on N end of field 1000 ft from end of rnwy and 750 ft in from rnwy (between rnwy and taxiway)	Same	Same	13 ft								
			Same	Same	Same								

USAFETAC

FORM NOV 73

0-19 (C-1)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

CONTINUED ON REVERSE SIDE

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
4	Apr 68	1. Located 600 ft E of centerline 1000 ft S of the end of rnwy 19	GMQ-11	RO-2A	13 ft	
		2. Located 700 ft E of centerline 1000 ft N of the end of rnwy 01	Same	Same	Same	
5	Jan 70	1. Located 600 ft E of centerline 1200 ft S of the end of rnwy 19	GMQ-20	RO-362	Same	
		2. Located 675 ft E of centerline 2075 ft N of the end of rnwy 01	Same		Same	
6	Nov 78	1. Same	Same	Same	Same	
		2. Same	Same		Same	

U S AIR FORCE
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A

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

WEATHER CONDITIONS

94236 STATION K-I SA YE 1954 MONTH 0-7 YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM POWER OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
01-02			1.8	1.1	15.5		34.1	8.9	1.2	7.5		17.2	630
03-05			1.5	1.7	33.5		16.2	11.2	1.2	6.3		18.6	530
06-08			.9	1.2	35.0		17.8	12.5	1.0	9.2		22.0	424
09-11			.9	.9	40.2		41.8	12.6	1.9	5.9		22.5	329
12-14			1.5	1.0	37.0		39.2	8.5	1.2	9.1		18.7	430
15-17			1.6	.9	33.4		35.6	8.3	1.1	7.0		15.6	430
18-20			1.3	1.4	30.3		32.4	9.5	1.3	5.4		15.8	430
21-23			1.3	2.5	31.6		34.2	7.8	1.5	5.9		15.6	330
TOTALS			1.4	1.3	34.7		36.9	10.0	1.3	7.7		18.3	7437

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

948- STATION K I SA-VEE AFB TX STATION NAME 2-7 YEARS 1-1 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM MONTHLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
FE-	00-02		.2	.9	34.3		35.1	8.2	1.2	5.2		14.2	640
	03-05		.2	1.8	33.1		34.5	8.0	.4	4.5		13.6	640
	06-08		.4	2.1	34.5		36.3	9.5	.6	5.4		15.5	646
	09-11		.7	.8	30.5		40.5	9.7	1.9	7.8		12.7	640
	12-14		.7	.7	34.4		35.5	6.5	1.1	3.5		14.2	645
	15-17		1.1	.5	31.1		32.3	6.3	1.1	7.0		14.1	640
	18-20		.9	1.4	20.5		30.8	7.5	.9	4.7		12.0	640
	21-23		.7	2.4	31.4		33.2	8.7	1.5	3.7		13.3	640
TOTALS			.6	1.3	32.5		34.8	8.2	1.1	6.0		14.0	6746

GLOBAL CLIMATOLOGY BRANCH
USAF/TAC
AIR WEATHER SERVICE/TAC

WEATHER CONDITIONS

94816 STATION K I SA-YER AFB MI

0-7

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
HAR	00-02		5.3	2.4	19.0		25.9	13.2	1.9	4.2		19.0	930
	03-05	.1	4.4	3.0	18.9		25.5	16.5	1.3	5.2		22.2	930
	06-08	.4	6.0	2.4	21.0		28.7	18.3	1.6	4.6		23.4	929
	09-11	.3	5.5	1.4	25.3		31.4	18.6	1.8	5.1		24.5	930
	12-14	.3	4.0	1.2	23.3		27.5	11.8	.5	5.6		17.4	930
	15-17	.3	4.3	1.1	22.0		25.8	9.0	.5	4.4		13.6	929
	18-20	.2	3.1	1.5	19.0		22.7	10.2	1.4	6.0		15.1	930
	21-23	.1	4.3	1.6	19.4		24.0	11.7	.8	3.5		15.9	930
TOTALS		.2	4.6	1.9	21.0		26.4	13.8	1.2	4.6		18.9	7438

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/AC

WEATHER CONDITIONS

94836 STATION K I SAWYER AFB MI

9-7

YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
APR	00-02	.1	9.5	.9	9.6		18.0	12.8	1.9	1.1		15.4	999
	03-05	.6	9.6	.9	8.9		18.1	15.4	1.2	1.3		17.7	900
	06-08	.1	7.2	1.1	9.6		16.6	15.3	1.3	2.2		18.1	900
	09-11	.2	8.4	.9	11.4		19.6	14.0	.9	2.8		17.3	900
	12-14		10.0	.8	10.7		19.7	13.2	.8	1.9		15.6	900
	15-17	.3	9.3	.4	9.8		18.3	11.4	.2	1.7		15.0	900
	18-20	.6	10.3	1.0	9.2		18.9	11.1	.3	1.0		12.1	900
	21-23	.6	10.3	1.1	7.0		16.4	11.8	1.0	.9		13.2	900
TOTALS		.3	9.3	.9	9.5		18.2	13.1	1.0	1.6		15.3	7199

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

9483a STATION K I SAWYER AFB HI

9-7

YEARS

DAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02	.9	12.0	.3	2.3		14.0	15.6	1.9			17.2	930
	03-05	1.4	11.1	.3	2.3		13.3	18.7	1.8			20.1	930
	06-08	.2	13.1	.2	2.2		15.4	20.0	3.3	.2		22.5	930
	09-11		12.9		2.4		14.8	13.8	2.9			16.3	930
	12-14	.3	12.4		2.6		14.4	10.0	2.4			11.8	930
	15-17	1.1	11.5		2.5		13.4	8.2	2.3			10.2	930
	18-20	1.2	12.4		1.6		13.8	9.7	1.7			11.1	930
	21-23	1.5	11.6	.1	.9		12.5	11.9	2.2			13.4	930
TOTALS		.8	12.1	.1	2.1		14.0	13.5	2.3	.0		15.3	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

94836 STATION K I SAWYER AFB MI STATION NAME 0-7 YEARS 11 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
JUN	00-02	1.1	8.1		.1		8.1	16.3	2.0			17.7	900
	03-05	.8	9.9				9.9	20.1	1.9			21.0	900
	06-08	1.8	11.8				11.8	16.7	2.4			18.2	899
	09-11	.4	8.8				8.8	9.3	3.1			11.3	899
	12-14	1.6	12.1				12.1	6.7	3.7			9.3	900
	15-17	2.7	13.3				13.3	8.0	2.6			9.8	900
	18-20	2.1	10.9				10.9	8.0	2.9			10.5	896
	21-23	2.2	8.5				8.5	10.9	4.0			13.5	899
TOTALS		1.6	10.4		.0		10.4	12.0	2.8			13.9	7193

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

94834 STATION K. I. SAWYER AFB, MI STATION NAME 2-7 YEARS JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUL	00-02	1.9	6.2				6.2	12.0	4.1			16.1	929
	03-05	1.5	6.7				6.7	18.5	4.0			21.1	926
	06-08	1.2	5.9				5.9	18.5	5.1			20.4	930
	09-11	1.0	6.2				6.2	6.3	2.7			8.8	930
	12-14	2.0	7.1				7.1	3.8	2.2			5.4	927
	15-17	2.5	7.3				7.3	2.5	2.7			5.1	929
	18-20	3.0	7.4				7.4	3.3	3.3			6.7	929
	21-23	2.2	7.0				7.0	7.2	5.9			12.6	927
TOTALS		1.9	6.7				6.7	9.1	3.8			12.0	7427

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/AFAC

WEATHER CONDITIONS

9485 STATION K I SAWYER 468 51 STATION NAME

2071 YEARS

1 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
AUG	00-02	1.3	6.4				6.4	17.1	7.1			21.6	928
	03-05	1.4	8.3				8.3	21.7	7.3			25.3	926
	06-08	.8	8.2				8.2	24.0	6.2			27.5	928
	09-11	1.2	8.5				8.5	13.7	4.7			17.4	929
	12-14	.5	8.0				8.0	6.9	2.9			9.3	929
	15-17	2.2	7.2				7.2	5.6	3.6			11.5	929
	18-20	1.9	6.2				6.2	7.1	5.6			11.4	929
	21-23	.9	4.4				4.4	12.3	7.2			16.8	928
TOTALS		1.3	7.2				7.2	13.7	5.6			17.2	7426

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/PAC

WEATHER CONDITIONS

94834 STATION K. I. SAWYER AFB AT STATION NAME 0-7 YEARS 3 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM MONTHLY OBSERVATIONS

MONTH	POURS (L.S.T)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
SEP	00-02	1.0	15.8		.7		16.4	20.4	2.4			20.7	900
	03-05	2.3	16.5		.2		16.7	23.5	1.7			23.5	899
	06-08	.9	15.3		.4		15.6	23.7	1.8			24.1	900
	09-11	.7	14.8		.1		14.8	16.1	2.1			17.8	900
	12-14	.4	12.8		.1		12.9	11.3	1.2			12.4	900
	15-17	.7	12.2		.1		12.3	7.9	2.0			9.7	899
	18-20	1.6	12.3		.2		12.6	11.5	4.1			14.2	899
	21-23	1.2	15.6		.6		16.0	16.0	4.3			17.9	900
TOTALS		1.1	14.4		.3		14.7	16.3	2.5			17.6	7197

GLOBAL CLIMATOLOGY BRANCH,
USAFETAC
AIR WEATHER SERVICE/TAC

WEATHER CONDITIONS

948 STATION K-1 SAWYER AFB MO DATE 0-7 YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM 1 HOUR OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
ECT	00-02		13.0		5.3		17.1	17.5	3.3		.2	19.7	530
	03-05	.2	14.6		5.6		18.7	21.0	1.7		.3	22.2	929
	06-08	.4	12.7		5.1		17.4	24.4	2.3	.1	.2	25.7	936
	09-11	.2	11.5		6.8		17.4	20.5	2.4	.1	.3	21.9	736
	12-14	.3	11.3		4.0		15.3	12.5	1.4	.1		13.7	930
	15-17	.6	12.7		4.2		16.6	9.0	1.2			10.3	729
	18-20	.5	11.8		3.1		14.7	13.1	2.9			14.5	923
	21-23	.4	12.9		4.1		16.8	17.3	3.2	.2		19.4	930
TOTALS		.3	12.6		5.0		16.7	17.1	2.3	.1	.1	18.5	7427

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

94834 STATION K I SALLYE AFH 21 STATION NAME 2-7 YEARS 1-11 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBS? TO VISION	TOTAL NO. OF OBS
NOV	00-02		9.8	.1	21.7		36.7	17.9	.9	1.2		20.1	900
	03-05		9.9	.6	22.1		32.3	18.9	.3	1.6		20.4	900
	06-08		10.3	.4	21.2		31.7	20.0	.4	1.4		21.8	900
	09-11		10.1	.6	23.7	.1	33.8	19.4	1.1	2.2		21.6	899
	12-14	.1	9.4		25.8		34.6	16.2	.7	2.3		18.7	900
	15-17		9.6		23.3		32.1	13.9	1.0	1.3		15.7	897
	18-20		8.4		19.6		27.8	16.5	1.5	1.7		18.3	896
	21-23		8.1	.2	22.3		30.0	16.2	1.2	1.3		18.5	897
TOTALS		.0	9.5	.2	22.5	.0	31.6	17.5	.9	1.7		19.4	7189

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

WEATHER CONDITIONS

94835 STATION K I SAWYER AFB MI

8-77

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
DEC	00-02		1.9	2.6	35.2		39.4	11.6	1.3	5.2		18.0	329
	03-05		2.0	3.4	31.6		36.3	14.6	1.4	6.2		22.3	330
	06-08	.1	3.1	2.3	36.7		39.0	15.5	1.4	6.2		22.9	930
	09-11		2.8	2.8	40.4		44.9	16.7	.6	7.3		24.5	929
	12-14	.1	3.0	.5	43.3		46.1	12.6	.5	8.0		20.9	929
	15-17		3.0	1.4	39.9		43.5	11.1	.2	7.2		18.4	930
	18-20		2.4	1.4	35.2		38.5	11.4	1.0	7.2		19.6	930
	21-23		2.2	1.5	36.7		39.7	11.7	1.0	6.2		18.4	930
TOTALS		.2	2.6	2.0	37.1		40.9	13.2	.9	6.7		20.6	7437

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAF

WEATHER CONDITIONS

94835 STATION K I SANYER AFB HI STATION NAME 2-7 YEARS 21 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM MONTHLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	All		1.4	1.3	34.7		36.9	10.0	1.3	7.7		18.3	7427
FEB			.6	1.3	33.5		34.8	8.2	1.1	6.7		14.9	6756
MAR		.2	4.6	1.9	21.0		26.4	13.6	1.2	4.6		18.9	7438
APR		.3	9.3	.9	9.5		18.2	13.1	1.0	1.6		15.3	7199
MAY		.8	12.1	.1	2.1		14.0	13.5	2.3	.0		15.3	7440
JUN		1.6	10.4		.0		10.4	12.0	2.8			13.9	7153
JUL		1.9	6.7				6.7	9.1	3.8			12.0	7427
AUG		1.3	7.2				7.2	13.7	5.6			17.2	7426
SEP		1.1	14.4		.3		14.7	16.3	2.5			17.6	7197
OCT		.3	12.6		5.0		16.7	17.1	2.3	.1	.1	18.5	7437
NOV		.0	9.5	.2	22.5	.0	31.6	17.5	.9	1.7		19.6	7189
DEC		.0	2.6	2.0	37.1		40.9	13.2	.9	6.7		20.6	7437
TOTALS		.6	7.6	.6	13.8	.0	21.5	13.1	2.1	2.4	.0	16.8	87586

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WEAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than $5/8$ mile.

GLOBAL CLIMATOLOGY BRANCH
 USAF/TAC
 AIR WEATHER SERVICE/TAC

XXX **WEATHER CONDITIONS**
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 ATMOSPHERIC PHENOMENA

94356 STATION K I SA-YF AFB HI 0-7 YEARS ALL MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
 FROM DAILY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	411.7	.2	13.6	10.2	77.9		60.8	33.3	11.2	25.7		52.1	569
FEB		.2	11.5	9.1	76.9		77.8	31.7	13.4	25.7		52.3	537
MAR		1.9	21.6	9.8	57.0	.2	66.7	37.5	12.9	15.0		50.4	589
APR		5.4	39.5	4.7	32.2	.4	55.5	38.1	8.6	5.6		42.2	509
MAY		11.2	50.3	1.2	10.4	.7	54.0	37.9	11.0	.7		39.9	589
JUN		20.2	54.0		.4	1.1	54.0	44.2	13.8			46.5	570
JUL		20.2	47.3		.2	1.7	47.3	41.7	20.2			45.4	588
AUG		18.2	50.9			.7	50.9	45.7	22.4			50.4	569
SEP		13.0	60.4		3.2	.9	61.1	55.3	20.7			56.7	570
OCT		4.9	52.0		23.1	.3	62.2	47.1	20.2	1.4		50.7	588
NOV		1.8	33.3	5.3	57.9	.4	73.2	44.7	9.6	8.6		51.1	570
DEC		.5	19.0	13.1	78.6		83.0	38.2	9.2	18.2		53.0	589
TOTALS		8.1	37.8	4.4	34.8	.5	63.9	41.3	14.8	8.4		49.2	6937

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	"00" equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	"0" equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0" equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945	at 0800LST
Jan 46-May 47	at 1230GMT
Jun 57-present	at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52	at 0030GMT
Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT

2 GLOBAL CLIMATE DATA CENTER
USAF/PTAC
AIR WEATHER SERVICE/PTAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

94831 K I SA YFI AF 91

0-7

STATION

STATION NAME

YEARS

	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	.02-.05	06-.10	11-.25	26-.50	51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	MEAN			GREATEST	LEAST	
SNOWFALL	NONE	TRACE	01-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4						
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120						
JAN	17.3	29.2	0.7	15.0	7.6	11.5	5.9	1.2	.1					53.3	587	2.02	4.25	.81	
FEB	22.5	26.4	8.0	16.2	6.9	10.4	4.5	2.6	.4					51.0	537	1.91	3.45	.42	
MAR	33.3	27.0	5.4	11.4	7.3	8.8	3.1	2.0	1.7					30.7	580	2.22	4.21	.81	
APR	44.7	17.0	2.5	8.9	5.6	9.1	0.3	4.2	.4					38.2	570	2.69	5.12	.65	
MAY	44.0	16.3	3.7	9.5	4.8	10.0	4.6	5.4	1.7					30.7	589	3.23	6.37	1.70	
JUN	44.4	15.6	2.5	8.2	4.4	8.6	7.7	5.3	2.0					40.0	577	3.65	9.29	.39	
JUL	51.3	16.1	2.5	6.5	4.2	6.6	0.3	4.1	2.2	.2				37.6	599	3.42	9.00	1.06	
AUG	47.0	18.8	2.2	8.8	3.2	7.0	5.8	4.3	2.0	.2				34.1	589	3.38	6.03	.34	
SEP	37.4	20.4	3.5	9.6	5.8	7.9	6.7	6.3	2.5					42.3	570	3.84	6.70	1.23	
OCT	36.5	22.1	4.8	10.0	5.3	11.0	6.1	2.7	1.5					41.4	589	2.73	6.10	.91	
NOV	27.2	24.9	6.5	12.1	9.8	10.0	4.4	4.4	.7					47.9	570	2.46	4.05	.96	
DEC	16.3	27.8	7.8	16.5	9.0	11.5	7.3	3.4	.3					55.9	580	2.58	5.83	.72	
ANNUAL	35.2	21.8	4.9	11.3	6.3	9.2	5.9	3.9	1.4	.0				43.0	6940	4.23			

RESIDITATI

(FROM DAILY OBSERVATIONS)

STATION	K I SA VF. AFB HI
STATION NAME	

1992

YEARS

24 . 16 - 48" WTS IN INCHES

[illegible]

NOTE * (BASED ON LESS THAN FULL MONTHS)

U.S. CLIMATOLOGY SERVICE
 U.S. AIR FORCE
 U.S. NAVY SERVICE

EXTREME VALUES MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

STATION NAME: LISA YF, FEB 11

STATION: 52-1

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
59												1.24	
60	1.38	2.15	2.08	3.12	3.42	.91	3.51	3.67	3.05	2.69	2.25	1.56	4.24
61	1.35	1.76	2.63	3.44	3.14	.05	2.22	3.15	4.97	2.02	2.45	2.56	13.7
62	2.71	3.45	1.25	1.89	2.83	.75	1.12	4.34	4.64	2.13	1.50	2.32	20.2
63	1.90	1.50	1.46	2.47	1.70	.85	2.01	2.23	2.64	.91	3.25	3.08	27.8
64	1.75	2.45	2.60	2.41	3.36	.95	3.34	4.95	4.42	1.27	2.45	2.42	24.0
65	1.17	1.96	2.52	1.55	4.35	.93	1.95	2.43	3.94	1.07	3.10	2.13	27.1
66	1.33	.68	2.46	1.51	1.88	.10	1.06	6.03	2.07	3.16	3.97	2.00	31.47
67	4.19	2.31	1.77	2.58	2.46	.37	2.68	3.34	1.31	6.10	1.66	.72	35.6
68	1.27	2.32	.89	2.92	3.06	.29	2.81	2.42	5.19	3.07	1.24	2.63	40.4
69	3.26	1.65	3.25	3.24	2.62	4.25	2.45	.34	2.65	4.72	1.18	3.10	32.7
70	1.39	.82	1.26	1.42	2.21	.49	9.00	.56	4.25	3.81	2.59	2.37	33.1
71	4.96	2.87	2.62	.65	1.82	.63	2.76	1.29	1.30	5.30	3.16	2.35	37.8
72	1.11	1.14	2.38	2.81	1.85	1.02	3.02	4.23	3.85	2.10	2.78	.41	31.2
73	1.08	3.51	2.63	4.65	6.87	.76	4.09	4.66	3.34	4.05	1.28	2.97	42.0
74	.81	1.85	1.14	2.86	2.20	.92	2.12	4.25	3.74	2.05	2.33	1.20	25.9
75	3.06	1.74	2.72	2.64	3.01	.75	3.59	4.92	3.57	1.11	4.05	1.78	37.9
76	1.74	1.21	4.18	2.31	3.92	.60	1.48	1.44	1.23	1.53	.98	1.79	25.4
77	1.48	1.45	4.21	4.31	1.96	.65	4.76	5.88	6.70	2.68	3.29	3.95	44.3
78	2.68	1.37	.81	2.34	2.67	.93	8.31	4.22	2.88	2.15	2.40		
MEAN	2.017	1.906	2.317	2.684	3.231	3.654	3.420	3.363	3.837	2.735	2.461	2.503	33.277
S.D.	1.155	.748	1.015	1.130	1.416	2.089	2.106	1.689	1.451	1.482	.965	1.155	2.404
TOTAL OBS.	589	537	589	570	589	570	539	589	570	589	570	560	694

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATE DATA
USAF/AFAL
AIR WEATHER SERVICE/AF

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOW FALL
(FROM DAILY OBSERVATIONS)

94800 K I SA YEN AFB RI

0-7

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	.02-.05	06-10	11-25	26-30	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SHOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	20.9	26.0	10.7	17.3	4.6	9.9	2.9	3.1	1.1	.5	.2			53.1	509	26.2	97.3	7.9
FEB	22.7	27.0	14.7	17.3	7.4	3.4	3.2	1.1	2.4	.7				50.3	537	24.7	40.1	6.8
MAR	41.9	25.3	10.0	10.4	3.4	2.0	1.7	1.7	2.3	.8	.3			37.3	569	22.1	44.1	.2
APR	67.5	15.6	7.7	4.9	1.4	1.4	.5	.5	.4					16.8	570	3.9	17.1	.4
MAY	89.0	6.5	1.7	1.7	1.0	.2								4.6	509	1.3	4.9	.0
JUN	99.0	.4													370	TRACE	TRACE	.0
JUL	99.8	.2													330	TRACE	TRACE	.0
AUG	100.0														309	.0	.0	.0
SEP	96.7	3.0	.2			.2								.4	570	.2	3.4	.0
OCT	77.2	14.4	2.2	3.6	.6	.7	.8	.2						2.3	589	3.6	14.8	.0
NOV	41.0	24.4	10.2	11.6	4.9	2.3	1.1	1.6	2.1	.2				33.9	570	17.4	40.6	7.0
DEC	20.0	27.8	15.6	14.9	8.1	4.6	1.9	2.9	3.4	.7				52.1	589	31.0	70.9	8.3
ANNUAL	64.8	14.3	6.7	6.8	2.0	1.6	1.0	.9	1.0	.2	.0			21.0	6940	35.0		

- USAF. ETAC FORM 0-88-5 (OLI)

EXTREME VALUES

FROM JULY OBSERVATIONS

STATION 44610 STATION NAME 59-13 YEARS

TOTAL JULY TO FALL IN INCHES

MONTH	JAN.	FEB	MAR	APR	MAY	JUN	JUL	AUG.	SEP	OCT	NOV	DEC	ALL MONTHS
50												17.6	
51	21.5	40.1	20.6	11.0	4.9	TRACE	.0	.3	TRACE	2.1	11.5	15.0	137.0
52	13.9	21.9	24.2	3.4	1.8	.7	.0	.3	TRACE	TRACE	12.5	29.1	170.0
53	28.6	34.3	10.8	1.8	1.4	.7	.0	.3	TRACE	9.1	9.9	24.7	120.0
54	15.4	14.7	13.7	2.4	2.0	.7	.0	.3	.3	TRACE	19.7	27.0	67.0
55	14.0	26.6	25.1	4.1	.0	.7	.0	.3	.0	3.2	7.0	30.5	110.0
56	12.5	18.9	23.1	3.5	TRACE	.7	.0	.3	TRACE	2.1	15.0	10.8	91.0
57	12.6	6.8	27.7	9.8	1.0	.7	.0	.3	TRACE	.5	40.6	29.7	126.0
58	37.5	23.8	14.4	2.4	3.8	.7	TRACE	.3	TRACE	10.3	22.4	6.3	123.0
59	16.1	30.2	3.7	3.3	TRACE	.7	.0	.3	TRACE	5.4	20.7	70.9	150.0
60	44.3	29.4	37.5	.4	TRACE	TRACE	.0	.3	.0	6.5	7.0	55.4	180.0
70	40.6	20.2	17.2	.9	2.2	.7	.0	.3	TRACE	TRACE	15.0	49.5	145.0
71	92.8	34.0	26.3	2.4	1.0	.7	.0	.0	.0	.0	25.6	22.9	200.0
72	17.0	22.5	37.2	17.1	.0	.0	.0	.3	.0	2.3	3.1	36.1	140.0
73	13.9	31.1	.2	11.5	3.8	.0	.0	.3	TRACE	TRACE	8.5	54.5	123.0
74	9.9	31.1	8.1	17.1	2.3	.0	.0	.3	3.4	8.7	14.3	16.9	113.0
75	34.5	28.3	44.1	1.0	.0	.0	.0	.3	TRACE	TRACE	37.2	12.8	159.0
76	36.4	16.7	40.2	1.3	1.2	.0	.0	.3	TRACE	14.3	17.1	24.1	151.0
77	20.1	12.7	17.4	15.8	TRACE	.3	.0	.7	.0	TRACE	15.3	64.1	148.0
78	43.6	25.5	14.0	3.0	.0	.0	.0	.0	.0	2.1	14.9		
MEAN	28.17	24.66	22.13	5.94	1.34	TRACE	TRACE	.00	.18	3.57	17.59	31.60	135.4
S.D.	19.915	8.388	12.541	5.793	1.531	.000	.000	.000	.780	4.439	9.464	18.615	29.204
TOTAL CBS.	589	537	589	570	589	570	589	589	570	589	570	589	694

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OU)

2 GLOBAL CLIMATE SERVICE
USAF/STAG
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOW DEPT.
(FROM DAILY OBSERVATIONS)

94851 K I SA YEN AFB HI

STATION

STATION NAME

YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	.3		1.0	1.0	2.9	9.5	30.9	37.9	12.0	3.7	.2			99.7	589			
FEB				1.7	.2	5.9	20.7	43.9	23.0	7.8				100.0	537			
MAR	5.9	1.5	3.6	4.6	5.2	9.7	21.4	33.6	16.2	.2				92.5	589			
APR	54.2	6.1	7.7	5.1	2.8	8.8	3.0	7.9	1.0					32.6	579			
MAY	96.1	1.7	1.0	.7	.3	.2								2.2	589			
JUN	100.0														570			
JUL	100.0														589			
AUG	100.0														589			
SEP	99.8					.2								.2	570			
OCT	92.6	2.0	2.2	1.7	.5	1.5								5.9	589			
NOV	45.4	8.4	13.3	7.5	5.3	10.9	7.5	1.6						46.1	570			
DEC	2.0	1.5	3.9	4.9	9.5	25.0	26.3	23.6	3.1	.2				96.4	589			
ANNUAL	58.0	1.8	2.7	2.3	2.1	6.1	9.4	12.4	4.8	.6	.0			40.2	6960			

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841,

FROM DAILY OBSERVATIONS

94294 215-75 250 MI
STATION STATION NAME

DAILY SHIP REPORT LINES

	MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
YEAR														
69														10
70		17	42	59	11	4	1	0	1	0	TRACE	4	6	6
71		11	20	19	1	TRACE	1	0	0	0	0	0	10	2
72		27	36	34	5	TRACE	1	0	0	0	4	8	12	3
73		15	14	15	2	TRACE	1	0	0	0	0	5	19	1
74		13	27	17	11	0	0	0	0	0	2	6	15	2
75		15	29	29	30	0	0	0	0	0	1	8	9	2
76		17	17	15	15	0	0	0	0	0	0	17	37	2
77		43	34	30	1	3	0	0	0	0	5	7	5	+
78		13	29	30	1	0	0	0	0	0	5	12	39	3
79		50	43	29	22	0	0	0	0	0	6	4	20	0
80		26	25	23	5	2	0	0	0	0	0	6	34	1
81		36	34	28	21	1	0	0	0	0	0	10	13	1
82		18	23	35	28	1	0	0	0	0	0	2	13	1
83		15	18	12	5	2	0	0	0	0	0	2	23	2
84		17	23	17	13	1	0	0	0	4	4	8	10	2
85		24	28	33	22	0	0	0	0	0	5	22	7	3
86		21	23	34	4	TRACE	0	0	0	0	5	8	18	3
87		19	18	22	13	0	0	0	0	0	0	10	33	3
88		32	37	23	6	0	0	0	0	0	TRACE	*		
MEAN		22.6	27.3	25.5	11.5	.7	.0	.0	.0	.2	1.7	7.9	10.1	32.3
S.D.		10.740	8.497	8.023	9.167	1.195	.000	.000	.000	.918	2.257	4.994	9.949	6.145
TOTAL OBS.		569	537	589	570	589	570	589	567	570	589	570	589	4940

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OU)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

CLIMATE DIVISION
USAFETAC
AIR WEATHER SERVICE/AF

EXTREME VALUES

USAFETAC 41 10

FROM DAILY OBSERVATIONS

3483 K I SAYEN AFB IL
STATION STATION NAME

59-78

YEARS

DAILY PEAK WINDS IN KNOTS

MONTH YEAR	JAN.	FEB	MAR.	APR.	MAY	JUN.	JUL.	AUG	SEP	OCT	NOV	DEC.	ALL MONTHS
59													
60													
61													
62			33N	20N	37N	34W	30NW	33N	33SS	42N	23SS	21W	37
63	NW 34S	39NN	45SSW	44S	29W	42SSW	25NE	31NE	36SS	31NN	36N	36	34
64	SSW 40SW	36S	39SSW	59S	37WS	42NNE	35SW	35SW	39N	41W	32S	37	35
65	NNW 38N	38N	35WSW	33SSW	33N	32NW	32N	29SW	26N	27N	46N	39	34
66	S 34S	31NNE	43ESE	32NW	38N	31NW	40NNE	27NN	29SW	38N	57SS	36	37
67	NW 37N	38S	36N	35SSW	39SW	32NNW	32NNE	35N	31N	35S	33S	37	35
68	S 37NN	44S	46NW	57N	50E	3323/	3818/	4316/	2927/	2729/	4036/	43	34
69	16/ 3736/	3536/	4336/	3830/	4222/	4619/	3225/	4119*	3434/	3236/	3936/	41	22/ 4
70	36/ 3636/	4036/	3527/	4229/	37 2/	3233/	3527/	3227/	3818/	4126/	50 2/	35	26/ 5
71	33/ 4818/	40 1/	4935/	4023/	3920/	3230/	3225/	4022/	3220/	4420/	4229/	38	1/ 4
72	34/ 4536/	3236/	43 9/	2936/	40 1/	3223/	3936/	2626/	3929/	54 2/	3832/	35	29/ 5
73	36/ 3416/	3716/	42 3/	4135/	4022/	3121/	3220/	3820/	3121/	3632/	3522/	37	16/ 4
74	32/ 3534/	3527/	3335/	3613/	3233/	3527/	3422/	3021/	3236/	3935/	3036/	36	36/ 5
75	18/ 5033/	30 3/	36 2/	2827/	6022/	4034/	3221/	3732/	3025/	3829/	4320/	34	27/ 5
76	20/ 3735/	39 1/	3921/	3421/	3419/	54 1/	3127/	3224/	3531/	3230/	3235/	36	17/ 3
77	31/ 3636/	3232/	3535/	3824/	3831/	4330/	4133/	3224/	4225/	3423/	4634/	29	23/ 4
78	36/ 5836/	3120/	3633/	42 1/	3619/	3827/	4720/	3032/	3636/	3624/	37		
79													
80													
81													
82													
83													
84													
85													
86													
87													
88													
89													
90													
91													
92													
93													
94													
95													
96													
97													
98													
99													
00													
MEAN	35.8	35.3	35.9	39.1	38.7	27.1	34.9	33.6	34.3	37.5	35.3	36.9	36.1
S.D.	6.914	3.967	5.711	8.418	7.183	6.962	5.135	4.887	4.976	5.524	7.372	3.052	6.71
TOTAL OBS.	495	479	526	509	525	506	522	524	502	524	509	495	611

NOTES * (BASED ON LESS THAN FULL MONTHS)

† (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

USAF ETAC FORM 0-88-5 (OJ)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 94834 K I SA, YER AFB MI STATION NAME 67-78 YEARS NORTH JA
CLASS ALL WE - THE
CONDITION

0000-0200
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.5	1.3	2.6	1.0	.9	.1					7.3	13.0
NNE	.1	.6	.8	.2		.1						1.8	8.2
NE	.2	.4	.3	.4	.3							1.7	10.2
ENE	.4	.5										1.0	3.6
E	.3	.4	.1	.3								1.2	6.5
ESE	.2	.2	.5									1.0	6.7
SE	.3	.1	.3	.1								.9	6.3
SSE	.5	.2	.2	.5	.5	.1						2.2	11.2
S	1.2	2.2	1.9	1.9	.9							8.1	8.8
SSW	2.0	1.9	2.8	3.3	1.3	.2						11.6	9.5
SW	1.1	1.9	2.0	.6	.5							6.2	7.5
WSW	1.2	1.6	2.9	.4	.1	.1						6.3	7.2
W	1.0	4.5	4.0	2.4	.1	.1						12.0	7.8
WNW	1.6	2.7	4.8	2.0	.3							11.5	8.1
NW	.5	1.2	2.5	2.7	.2	.1						7.2	9.9
NNW	.1	1.3	2.8	2.0	.9	.1	.3					7.5	11.6
VARBL													
CALM												12.5	
	11.8	20.4	27.3	19.7	6.1	1.7	.4					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94834 K I SA YER AFB HI 43-78 JAN
STATION STATION NAME YEARS MONTH
ALL REF. THE CLASS 0300-0500
CONDITION HOURS (LST.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.4	1.2	1.2	.9	.2	.2					6.1	13.1
NNE	.2	.1	.9	.3	.2	.2	.1					2.0	12.3
NE		.8	.3	.3	.1							1.5	8.6
ENE	.2	.4	.3									1.0	5.3
E	.3	.8	.1	.1								1.3	5.3
ESE		.6	.2									.9	5.9
SE	.2	.1		.1								.4	4.8
SSE	.4	.4	.9	.6								2.4	8.3
S	1.5	2.4	1.6	2.6	.3	.3						8.7	8.4
SSW	2.2	2.7	2.8	2.6	.6							10.9	8.3
SW	1.1	2.0	2.2	1.1	.1							6.5	7.3
WSW	.9	2.2	1.5	.9	.3	.1						5.8	7.7
W	1.7	3.2	4.3	1.3								10.5	6.8
WNW	1.6	3.3	4.3	1.9	.4							11.6	7.8
NW	.8	1.6	2.8	3.0	.5	.1						8.7	10.1
NNW	.8	.6	2.6	4.1	.9	.4						9.4	11.6
VARBL													
CALM												12.4	
	12.4	21.7	26.2	20.9	4.4	1.7	.3					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/4AC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

9483- K I SA-YFR AFB HI 78 JAN
STATION STATION NAME YEARS MONTH
ALL OF THE CLASS 0600-0800
CONDITION POWER (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	1.1	1.0	1.5	.5	.1	.3	.2				5.3	13.4
NNE	.1		1.1	.2	.1							1.8	10.4
NE	.2	.6	.2	.2		.2						1.5	8.9
ENE	.2	.3										.5	4.2
E	.4	.4	.2									1.1	4.7
ESE	.3	.4	.5									1.3	5.6
SE		.5	.5	.1								1.2	7.5
SSE	.2	.5	1.1	.5								2.4	8.1
S	1.1	1.9	2.5	2.5	.1	.2	.2					8.6	9.8
SSW	1.6	3.7	3.2	2.5	.2	.1						11.3	7.8
SW	1.4	1.6	2.5	1.5	.1							7.1	7.8
WSW	.5	2.4	1.5	.3	.2							5.0	6.7
W	1.7	3.8	3.1	1.6	.2							10.5	7.3
WNW	.6	2.6	3.3	2.2	.1							8.9	8.1
NW	.4	1.9	4.4	3.7	.6	.1						11.2	9.9
NNW	.5	1.3	3.0	4.3	.9							10.0	11.0
VARBL													
CALM												12.3	
	9.9	23.2	28.2	21.4	3.1	1.1	.5	.2				100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 928

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/PAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

9483n STATION K I SAWYER AFB MI 57-78 YEARS JAN MONTH
ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.6	.5	1.7	1.8	.3		.2	.1			5.7	15.2
NNE	.2	.9	.5	.9								2.5	8.7
NE	.3	.1	.4	.3		.1						1.3	8.8
ENE	.4	.2	.1									.8	4.4
E		.1	.8									.9	7.8
ESE	.3	.4	.5	.1								1.4	6.2
SE	.2	.5	1.3	.3								2.4	7.7
SSE	.5	.6	.9	1.0								3.0	8.0
S	.6	2.4	2.6	3.2	1.2	.1	.2					10.3	10.5
SSW	1.2	2.2	2.3	2.5	.5	.3						8.9	9.2
SW	.6	2.3	2.7	1.5	.1							7.2	8.2
WSW	.9	1.3	2.8	1.1								6.0	7.6
W	1.2	3.3	5.4	1.2	.3							11.4	7.5
WNW	.8	1.7	3.4	2.9	.3							9.1	9.4
NW	.4	1.9	3.4	4.5	.9							11.2	10.5
NNW	.2	1.5	3.2	3.6	.6	.1						9.5	11.0
VARBL													
CALM												8.4	
	8.3	20.1	30.9	24.8	5.8	1.2	.2	.2	.1			100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

929

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94856
STATIONK I SAFFER AFB HI
STATION NAME50-78
YEARSJAN
MONTHALL WEATHER
CLASS1200-1500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	1.0	1.0	3.0	1.6	.1		.2	.1			9.5	11.7
NNE	.3	.4	.5	.9	.6							2.8	10.6
NE	.2	.2	.8	.4								1.6	8.4
ENE	.3	.2	.4									1.0	5.4
E	.1	.3										.4	4.8
ESE	.5	.5	.2									1.3	4.3
SE	.2	.4	.8	.3								1.7	7.6
SSE	.8	.5	1.1	1.7								4.1	9.1
S	.6	2.5	3.2	3.1	1.7	.4						11.6	11.0
SSW	.1	1.8	2.4	2.9	.5	.2	.3	.1				8.4	11.9
SW		1.2	3.7	1.6		.2						6.7	9.5
WSW		1.2	4.1	1.6	.1							7.0	9.5
W	.4	1.2	3.2	2.5		.1						7.4	9.5
WNW	.8	.9	3.0	3.7	.3							8.6	10.3
NW	.1	1.3	2.6	5.3	1.2							10.4	11.8
NNW	.3	1.3	3.1	5.6	1.2	.4	.1					12.0	11.9
VARBL													
CALM												5.5	
	6.0	15.6	30.6	32.0	7.3	1.5	.4	.3	.1			100.0	10.0

TOTAL NUMBER OF OBSERVATIONS

930

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATION

K I SAWYER AFB MI
STATION NAME

69-78
YEARS

JA
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.6	3.4	2.6	1.4	.1	.1	.2				10.2	11.1
NNE	.5	1.2	.9	.5		.1						3.4	8.1
NE		.9	.8	.1								1.7	4.9
ENE	.4	.2	.2	.1								1.0	5.4
E	.5	.2	.5									1.3	5.2
ESE	.3	.2	.5	.1								1.2	6.6
SE	.4	.1	.6	.2	.1							1.5	7.6
SSE	.5	1.1	.9	1.0	.1							3.5	8.5
S	1.0	1.6	2.9	3.1	1.6	.4	.1					10.8	11.3
SSW	.2	1.6	3.1	3.3	1.3	.4	.1					10.1	11.8
SW	.1	.2	2.9	1.2	.2	.1	.1					4.8	10.6
WSW	.1	1.5	1.6	.8								4.0	7.8
W	.8	2.7	5.3	2.4	.2							11.3	8.6
WNW	.5	1.6	3.1	4.1	.5							9.9	10.1
NW	.3	.6	2.7	2.5	.3							6.5	10.2
NNW	.3	2.0	3.7	5.1	1.2	.2	.1					12.6	11.2
VARBL													
CALM												6.2	
	6.9	17.4	33.1	27.2	7.0	1.4	.5	.2				100.0	9.4

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836 STATION K I SAWYER AFB MI STATION NAME 52-78 YEARS MONTH JAN 1800-2000 HOURS (L S T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.5	1.6	2.2	.4	.2	.3					7.2	10.5
NNE	.3	.6	.5	.3								1.8	6.9
NE	.2	.3	.5	.2								1.3	6.8
ENE	.3	1.1	.1	.1								1.6	5.0
E	.6	.2	.5	.1								1.5	5.8
ESE	.4	.2	.3	.1								1.1	5.9
SE	.5	.8	.4	.2								1.9	5.5
SSE	.5	1.0	1.0	.9								3.3	7.8
S	.4	1.6	2.7	3.8	1.5	1.0						11.0	12.2
SSW	1.1	1.8	2.4	2.6	.6	.5						9.0	10.1
SW	1.3	1.2	1.3	.3	.1		.2					4.4	7.2
WSW	.5	1.8	1.6	.4								4.4	6.8
W	2.5	3.7	4.9	1.8	.1							13.0	7.0
WNW	.9	1.9	3.1	1.4	.1	.1						7.5	8.3
NW	1.4	2.0	2.6	2.0	.2							8.3	8.1
NNW	1.2	2.3	3.5	2.8	.1	.3						10.2	9.1
VARBL													
CALM												.4	
	13.2	22.0	27.2	19.2	3.2	2.2	.5					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835 STATION K I SANYER AFB MI 59-78 YEARS NORTH J44
ALL WEATHER CLASS 2100-2300
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.0	1.1	2.0	.9	.4	.2					6.7	11.6
NNE	.1	.5	1.1	.2	.3							2.3	9.4
NE	.2	.3	.5	.2								1.3	7.4
ENE		.1	.4	.1								.6	8.3
E	.6	.1	.4									1.2	4.8
ESE		1.0	.6									1.6	6.4
SE	.6	.3	.3	.4								1.7	6.4
SSE	.3	.6	1.0	.6								2.6	8.4
S	1.1	1.2	1.2	4.0	.6	.4						8.5	11.0
SSW	1.2	2.5	3.3	4.1	.9	.5						12.5	10.4
SW	1.0	1.1	1.0	.3	.1	.3						3.8	7.9
WSW	1.1	2.6	2.7	.8								7.1	6.7
W	2.4	5.4	3.2	1.9	.1							13.0	6.7
WNW	2.0	3.3	3.2	1.0	.2							9.8	6.8
NW	1.0	1.7	2.7	2.9	.2							8.5	9.1
NNW	.9	1.0	2.4	2.5	.5	.1	.1					7.4	10.4
VARBL													
CALM												11.5	
	13.7	22.7	25.2	21.1	3.9	1.6	.4					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94834
STATION

K I SA-YER AFB HI
STATION NAME

69-78
YEARS

JAN
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.Y.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.0	1.5	2.2	1.1	.5	.2	.1	.0			7.2	12.3
NNE	.2	.6	.8	.5	.2	.1	.0					2.3	9.3
NE	.2	.5	.5	.3	.1	.0						1.5	8.3
ENE	.3	.4	.2	.0								.9	5.1
E	.4	.3	.3	.1								1.1	5.6
ESE	.3	.5	.4	.0								1.2	5.9
SE	.3	.4	.5	.2	.0							1.5	6.9
SSE	.5	.6	.9	.9	.1	.5						2.9	8.6
S	.9	2.0	2.3	3.0	1.0	.4	.1					9.7	10.5
SSW	1.2	2.3	2.8	3.0	.8	.3	.1	.0				10.3	9.8
SW	.8	1.4	2.3	1.0	.2	.1	.0					5.8	8.2
WSW	.6	1.8	2.3	.8	.1	.0						5.7	7.6
W	1.5	3.5	4.2	1.9	.1	.0						11.1	7.6
WNW	1.1	2.3	3.5	2.4	.3	.0						9.6	8.6
NW	.6	1.5	3.0	3.3	.5	.0						9.0	10.0
NNW	.5	1.4	3.0	3.7	.8	.2	.1					9.8	11.0
VARBL													
CALM												10.1	
	10.3	20.4	28.6	23.4	5.1	1.5	.4	.1	.0			100.0	8.4

TOTAL NUMBER OF OBSERVATIONS

7437

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94806
STATION

K I SAWYER AFB HI
STATION NAME

72-78
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.4	1.3	4.3	1.7	.4						11.6	10.6
NNE	.5	1.3	.9	1.3	.1							4.1	8.3
NE	.2	.6	.8	.4								2.0	7.7
ENE	.5	.1	.4									.9	5.4
E	1.1	.1										1.2	2.6
ESE	.2	.4	.4									.9	5.4
SE	.1	.1	.4									.6	5.8
SSE	.4		.8		.1							1.3	7.5
S	.1	2.4	3.1	1.9	.4	.1						7.9	9.2
SSW	.8	2.8	3.0	.8	.2							7.7	7.3
SW	.8	1.7	1.9	.6								5.0	6.9
WSW	1.4	2.4	1.2	.4								5.3	5.4
W	2.0	3.2	2.0	.5	.2							7.9	6.1
WNW	2.2	3.4	2.2	.9								8.9	5.9
NW	.5	2.6	2.1	1.2								6.4	7.4
NNW	.7	.8	1.7	3.0	.4							6.5	10.3
VARBL													
CALM												21.7	
	13.2	24.2	22.1	15.1	3.1	.5						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

846

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/VAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATIONK I SAWYER AFB MI
STATION NAME67-78
YEARSFEB
MONTHALL WEATHER
CLASS0300-0500
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.5	2.5	2.6	1.1	.6	.2					9.5	11.4
NNE	.4	.9	1.8	1.1								4.1	8.7
NE	.1	.4	.2	.2								.9	7.6
ENE	.4	.4	.2									.9	4.6
E	.6	1.3	.2									2.1	4.1
ESE	.6	.5										1.1	3.1
SE		.2	.6									.8	7.4
SSE	.1	.6	.5	.1								1.3	6.7
S	.6	1.4	2.1	.8	.5	.1						5.6	8.8
SSW	.7	3.3	3.4	1.3	.1							8.9	7.5
SW	.9	1.4	1.8	.4								4.5	6.3
WSW	.8	2.1	1.3	.1								4.4	5.5
W	3.1	4.3	1.7	.7	.1							9.8	5.2
WNW	2.2	3.1	2.0	.2								7.6	5.3
NW	1.1	2.6	2.0	1.4		.1						7.2	7.3
NNW	1.2	.9	3.2	3.3	.9	.1						9.7	10.3
VARBL													
CALM												21.5	
	13.7	24.9	23.5	12.3	2.7	.9	.2					100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

846

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835 STATION K I SAWYER AFB MI 59-78 YEARS FEB MONTH
ALL WEATHER CLASS 0600-0800 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	1.5	2.7	3.2	1.5	.6						11.6	11.2
NNE	.2	.7	1.3	1.5								3.8	9.4
NE	.2	.6	.6	.2								1.7	7.2
ENE	.5	.1										.6	3.2
E	.9	1.7		.1								2.7	4.5
ESE	.4	.6	.1									1.1	4.1
SE	.2	.7	.4	.2								1.5	6.7
SSE		.1	.2	.1								.5	9.0
S	.8	1.8	1.2	1.1	.6							5.4	8.6
SSW	1.1	3.4	3.0	.8	.2	.1						8.6	7.3
SW	1.1	2.6	2.0	.4								6.0	6.0
WSW	.4	1.1	1.1	.1								2.6	6.4
W	2.5	4.3	2.5	.2	.1							9.6	5.5
WNW	1.1	4.3	1.3	.4	.1							7.1	5.7
NW	.7	3.3	1.7	.6	.2							6.5	6.7
NNW	.7	1.5	3.2	3.1	.9							9.5	10.2
VARBL													
CALM												21.3	
	12.5	28.3	21.2	12.1	3.8	.9						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94834
STATION

K I SAWYER AFB MI
STATION NAME

69-78
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56	%	MEAN WIND SPEED
N	.7	1.6	3.8	5.9	2.7	.7						15.6	12.3
NNE	.1	.6	.9	2.0	.1							3.8	10.8
NE	.4	.5	.7	.4								1.9	7.1
ENE	.9	1.1	.2									2.2	4.2
E	.4	1.1	.6	.1								2.1	5.3
ESE	.2	.9										1.2	4.3
SE		.9	.5	.1								1.5	6.5
SSE	.4	.5	.4	.6								1.8	7.7
S	.7	1.3	2.0	1.4	.6	.2						6.3	9.7
SSW	.5	2.5	3.5	1.5	.5	.2						8.7	9.1
SW	.8	1.8	1.3	.7								4.6	6.8
WSW	1.1	1.4	1.5	.2								4.3	6.1
W	1.2	2.8	2.8	.7								7.6	6.5
WNW	1.4	2.7	2.8	1.2	.4							8.5	7.3
NW	.2	1.7	2.0	1.2	.2							5.3	8.8
NNW	.4	1.2	3.9	3.8	1.7	.1						11.0	11.5
VARBL													
CALM												13.6	
	9.3	22.7	27.1	19.9	6.1	1.3						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/VAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835 STATION K I SAHYER AFB MI 69-78 YEARS FEB NORTH
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	4.3	5.6	6.7	3.0	.6						22.2	11.0
NNE	.6	2.4	2.4	1.5								6.9	7.9
NE	.5	.7	.8	.1								2.1	6.3
ENE	.2	.6	.2	.1								1.2	5.5
E	.4	.5	.7		.1							1.7	6.9
ESE	.5	.1		.1								.7	4.5
SE		.4	.6	.1								1.1	8.2
SSE	.2	.7	1.1									2.0	6.5
S	1.1	2.6	4.4	2.8	1.1	.7						12.7	10.1
SSW	.9	1.1	1.9	3.2	.8	.7						8.2	10.8
SW	.6	.6	1.4	.8		.1						3.6	8.5
WSW	.7	.9	1.4	1.2	.2	.1						4.6	9.3
W	.6	1.9	2.5	.9								5.9	7.7
WNW	.6	.6	2.4	1.4	.6							5.6	9.9
NW	.2	.8	2.1	2.8	.6							6.6	10.9
NNW	.4	.9	3.8	3.4	1.3	.1						9.9	11.6
VARBL													
CALM												5.1	
	9.3	19.1	31.2	25.4	7.7	2.1						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 845

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/AC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94830 K I SA-YER AFB HI 59-78
STATION STATION NAME YEARS
ALL WEATHER CLASS MONTH
1500-1700 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥56	%	MEAN WIND SPEED
N	1.7	2.7	7.3	7.0	2.1							21.0	10.4
NNE	.2	2.7	4.8	2.0								9.8	8.3
NE	.7	1.4	1.9	.7								4.7	7.1
ENE	1.1	1.7	.4									3.1	4.6
E	.5		.4									.8	5.0
ESE	.4	.7	.1									1.2	4.4
SE	.1	.4	.2	.1								.8	6.7
SSE	.6	1.3	.4	.4								2.6	6.1
S	.7	2.5	3.2	3.4	1.1	.2	.1					11.2	10.7
SSW	.6	.8	3.0	2.2	.8		.1					7.6	10.7
SW	.2	.7	1.1	1.4	.2							3.7	10.2
WSW	.5	.4	1.2	1.1	.2							3.3	9.6
W	.5	1.3	1.9	1.3	.2		.1					5.3	9.2
WNW		.8	2.0	2.0	.5							5.3	10.5
NW	.5	.8	1.4	3.0	.2	.1						6.0	11.0
NNW	.6	.8	2.5	4.7	1.1	.2						9.9	11.9
VARBL													
CALM												3.5	
	8.7	19.0	31.7	29.3	6.5	.2	.4					100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94855

K I SAUER AFB MI

67-78

F.L.

STATION

STATION NAME

YEARS

MONTH

ALL MONTHS

CLASS

1800-2000

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	3.9	4.3	4.4	3.7	1.1	.2						13.0	6.3
NNE	1.5	4.7	3.0	.6	.1							9.9	6.3
NE	1.5	2.0	.7	.5								4.7	5.5
ENE	1.7	.7										2.4	3.7
E	.6	.6	.1									1.5	3.7
ESE	.5	.4										.8	3.7
SE	.1	.4	.2									.7	5.8
SSE	.2	1.2	.8	.7								3.0	7.7
S	1.1	2.5	2.0	3.6	.5	.2						10.1	10.0
SSW	.6	1.3	3.0	1.4	.5	.1						6.9	9.6
SW	.5	1.1	.7	.9	.4							3.6	6.1
WSW		1.1	.5	.5								2.0	7.7
W	.9	1.5	1.3	.9	.2							5.0	7.3
WNW	1.3	1.8	2.6	.9								6.6	7.1
NW	.7	1.4	2.0	1.4	.1							5.7	6.3
NNW	1.1	2.5	2.6	3.0	.6	.1						9.8	9.1
VARBL													
CALM												9.3	
	16.4	27.3	23.9	18.3	3.4	1.2						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

845

GLOBAL CLIMATE DATA
USAF-TAC
AIR WEATHER SERVICE/TAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94834 K I SA-YER AFB HI 75-76 FEB NORTH
STATION STATION NAME YEARS
ALL WEATHER CLASS 2100-2300 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.2	1.9	2.2	3.5	.5	.0	.1					11.3	9.9
NNE	.7	1.3	1.1	.7	.2							4.0	7.6
NE	.4	.7	1.3	.7								3.1	7.7
ENE	.4	.1	.1	.2								.8	6.6
E	.4	.4	.2									.9	4.3
ESE	.2	.7	.7									1.7	5.9
SE	.1	.2	.2									.6	5.4
SSE	.4	.8	.4	.2								1.8	6.1
S	.9	3.0	3.3	1.4	1.5	.1						10.3	9.1
SSW	.2	2.4	3.8	.8	.2							7.4	8.1
SW	.5	1.2	1.9	1.1								4.6	8.3
WSW	.5	1.4	1.1	.6								3.5	7.1
W	2.1	3.1	1.9	.6								7.7	5.7
WNW	1.5	3.2	.8	.4								5.9	5.3
NW	1.3	2.7	2.5	.8								7.2	6.4
NNW	2.4	2.1	3.3	2.6	.2							10.6	7.9
VARBL													
CALM												18.4	
	14.2	25.2	24.7	13.9	2.7	.7	.1					100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 856

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836
STATION

K I SAMPYER AFB MI
STATION NAME

43-78
YEARS

FEB
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	2.5	3.7	4.7	1.7	.6	.0					15.1	10.6
NNE	.5	1.8	2.0	1.3	.1							5.8	8.1
NE	.5	.9	.9	.4								2.6	6.8
ENE	.7	.6	.2	.0								1.5	4.4
E	.6	.7	.3	.0	.0							1.6	4.6
ESE	.4	.5	.2	.0								1.1	4.5
SE	.1	.4	.4	.1								1.0	6.7
SSE	.3	.7	.6	.3	.0							1.8	7.0
S	.8	2.2	2.7	2.1	.8	.3	.0					3.7	9.7
SSW	.7	2.2	3.1	1.5	.4	.1	.0					8.0	8.8
SW	.7	1.4	1.5	.6	.1	.0						4.4	7.5
WSW	.7	1.3	1.2	.5	.1	.6						3.8	7.0
W	1.6	2.8	2.1	.7	.1		.0					7.3	6.4
WNW	1.3	2.5	2.0	.9	.2							6.9	6.9
NW	.7	2.0	2.0	1.6	.2	.0						6.4	8.3
NNW	.9	1.4	3.0	3.4	.9	.1						9.6	10.4
VARBL													
CALM												14.3	
	12.2	23.8	25.7	18.3	4.5	1.1	.1					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 6766

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836 K I SANYER AFB MI 07-78 14R
STATION STATION NAME YEARS MONTH
ALL WEATHER CLASS 0000-0200
HOURS (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.9	2.9	3.4	1.8	1.5	.1					13.7	11.8
NNE	.5	.6	1.9	1.4	.5	.1						5.3	9.9
NE	.3	1.1	.6	.3	.1							2.5	7.0
ENE	.8	.5	.4	.3								2.0	6.1
E	.4	.6	.6	.2								2.0	6.5
ESE	.3	.4	.6									1.4	5.7
SE	.2	1.0	1.0	.3								2.5	7.3
SSE	.2	.4	.4	.4	.2							1.7	9.3
S	1.2	2.8	2.6	1.9	.4	.1						9.0	8.4
SSW	1.0	2.8	3.0	1.2								8.0	7.2
SW	.8	1.1	1.0	.3								3.1	6.0
WSW	1.2	1.5	.4	.4	.1							3.7	5.5
W	1.0	2.4	.5	.4								4.3	5.5
WNW	1.9	4.0	1.2	.6	.1							8.0	5.7
NW	1.3	1.6	1.1	.4								4.4	5.9
NNW	1.6	1.2	1.6	1.2	.4							6.0	7.8
VARBL													
CALM												22.5	
	14.7	24.0	20.0	13.2	3.8	1.7	.1					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATION

K I SAWYER AFB MI
STATION NAME

69-78
YEARS

10K
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	3.0	3.7	.9	2.0	1.1						15.2	11.1
NNE	.4	2.0	1.8	1.0	.6	.1						6.0	9.2
NE	.6	1.1	.5	.1	.1							2.5	5.5
ENE	.3	.8	.6	.4								2.2	7.2
E	.0	.9	.3	.1								.0	4.6
ESE	.2	.6	.1									1.0	4.6
SE		.8	.8	.4								1.9	8.5
SSE	.2	.2	.9	.5	.1							1.9	9.1
S	1.4	2.8	2.3	2.2	.4							9.0	7.8
SSW	1.8	3.1	1.7	1.3								8.0	6.5
SW	.9	1.7	.8	.3								3.7	5.6
WSW	1.1	.8	.4	.4								2.7	5.6
W	1.4	2.2	1.4	.3								5.3	5.4
WNW	2.3	3.2	.8	.3								6.6	4.7
NW	.5	2.0	1.2	.8	.1							5.4	7.1
NNW	.5	.8	1.2	1.0	.8	.2						4.4	10.6
VA*BL													
CALM												22.4	
	14.2	26.5	18.4	13.0	4.2	1.4						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAF F1AC
AIR WEATHER SERVICE/MAAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94834
STATION

K I SAWYER AFB MI
STATION NAME

57-78
YEARS

MAR
MONTH

ALL WEATHER
CLASS

0000-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.6	4.2	4.0	2.3	.6						15.4	10.8
NNE	.4	1.5	2.2	1.4	.8							6.2	9.8
NE	.3	1.3	1.4	.5								4.0	6.9
ENE	.5	.4	.3	.1								1.4	5.2
E	.6	.8	.2									1.6	4.3
ESE	.1	.2	.2	.1								.6	6.0
SE	.2	.3	.9	.2								1.6	7.5
SSE	.4	1.1	.6	.6								2.3	7.6
S	.8	2.2	2.0	1.5								7.4	7.8
SSW	2.2	3.1	2.9	1.1								9.3	6.5
SW	1.2	1.4	.9	.2	.1							3.8	5.8
WSW	1.0	.9	.1									1.9	3.7
W	1.8	1.9	1.2	.1								5.1	5.0
WNW	1.6	2.7	1.3	.3								5.9	5.3
NW	1.1	1.4	1.0	.2	.2							3.9	6.1
NNW	.9	1.0	1.7	1.6	.4							5.8	9.7
VARBL													
CALM												23.3	
	15.3	22.7	22.1	12.3	3.8	.6						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR EATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835 K I SAFFER AFB HI 69-78
STATION STATION NAME YEARS
ALL WFTHER CLASS
CONDITION
MAR NORTH
0900-1100
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	3.1	5.3	7.4	2.3	1.1						20.4	12.1
NNE	.1	.6	3.8	2.9	.3	.1						7.8	10.9
NE	.6	.8	1.0	.4	.1							2.9	7.5
ENE	.4	1.2	.6									2.3	5.7
E	.1	.9	.8									1.7	6.1
ESE	.4	.6	.3	.3								1.7	6.4
SE		.2	.6	.4								1.3	9.8
SSE	.3	.5	1.4	.8		.1						3.1	8.8
S	.6	3.3	4.2	3.4	1.0							12.6	9.5
SSW	1.2	2.0	2.5	2.2	.6							8.5	8.7
SW	.3	.9	1.1	.3								2.6	7.4
WSW	.3	1.0	1.3	.3	.1							3.0	7.3
W	.5	.9	1.7	1.3								4.4	8.6
WNW	.5	2.0	2.2	1.0								5.7	7.3
NW	.3	1.0	2.2	1.4	.2							5.1	9.4
NNW	.3	.4	2.7	2.6	1.0	.1	.1					7.2	11.8
VARBL													
CALM												9.7	
	7.1	19.5	31.5	24.5	5.6	2.0	.1					100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94826
STATION

K I SAWYER AFB MI
STATION NAME

69-78
YEARS

MAR
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.7	7.7	8.6	3.1	1.7	.1					24.9	12.3
NNE	.3	1.8	4.2	2.4	.2	.1						9.0	9.5
NE	.3	1.2	.6	.5								2.7	7.4
ENE	.6	.5	.5									1.7	4.9
E	.2	.6	.9	.2								1.9	7.3
ESE	.1	.3	.4	.2								1.1	7.6
SE	.2	.3	.8	.4								1.8	8.2
SSE	.6	1.1	1.7	1.2	.2							4.8	8.7
S	.6	3.3	4.8	5.9	1.4	.1						16.2	10.4
SSW	.3	.9	1.3	2.9	1.2	.1						6.7	12.2
SW	.1	.4	1.1	1.0	.2	.1						2.9	10.9
WSW	.5	.3	1.4	.9								3.1	8.4
W	.2	.4	1.7	1.2								3.5	9.1
WNW	.2	.2	1.6	1.2	.1							3.3	10.1
NW	.2	.3	1.8	2.0	.1	.1						4.6	11.1
NNW	.1	.5	1.7	3.3	1.3	.1						7.1	12.8
VARBL													
CALM												4.4	
	5.9	15.1	32.4	31.9	7.8	2.4	.1					100.0	10.2

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836
STATION

K I SANYER AFB MI
STATION NAME

69-78
YEARS

MAR
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.7	6.5	7.0	2.7	1.5	.9					20.8	13.3
NNE	.2	3.1	7.4	2.8	.5							14.1	9.0
NE	.2	1.2	4.4	1.1								6.9	8.3
ENE	.4	1.0	1.3	.2								2.9	6.7
E	.2	.5	.3	.2								1.3	7.4
ESE	.4	.5	1.0	.1								2.0	6.4
SE	.1	.3	.6	.5								1.6	9.1
SSE	.2	1.8	2.2	1.2	.3							5.7	8.7
S	.5	2.2	3.4	4.7	1.3							12.2	10.8
SSW	.2	.8	1.4	3.3	.3	.2						6.2	11.6
SW	.1	1.0	.6	1.1	.3	.1						3.2	10.6
WSW	.1	.3	1.0	.2								1.6	8.1
W	.2		1.1	1.7	.2							3.2	10.9
WNW		.4	2.8	1.9	.1							5.3	10.6
NW	.1	.3	2.2	1.7	.3							4.6	10.5
NNW		.5	1.6	3.0	.3	.1						5.6	11.8
VARBL													
CALM												2.7	
	3.7	15.7	37.8	30.9	6.5	1.9	.9					100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATE BRANCH
USAFETAC
AIR WEATHER SERVICE/VAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836 K I SAWYER AFB MI 59-78 1AR
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
1800-2000
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	4.2	4.9	4.9	1.9	1.6	.5					19.0	11.3
NNE	1.1	4.7	6.1	1.5	.1	.2						13.8	7.6
NE	1.8	4.5	1.7	.6								8.7	5.9
ENE	1.2	1.1	1.1	.1								3.4	5.2
E	1.2	.5	.5	.4								2.7	5.1
ESE	.2	.2	.6	.1								1.2	6.5
SE	.2	.8	.9									1.8	6.6
SSE	.6	1.5	3.0	1.0								6.1	7.6
S	.4	1.9	3.7	4.2	1.1	.1						11.4	10.4
SSW	.2	1.3	.9	1.1	.2							3.7	9.0
SW	.3	.4	.4	.6	.2							2.0	9.4
WSW	.1	.6	.9	.2	.1							1.9	8.4
W	.5	.4	1.4	.5								2.9	8.0
WNW	.1	.9	2.5	1.2	.1							4.7	9.2
NW	.4	.9	1.5	1.4	.2							4.4	9.1
NNW	.6	1.3	3.1	1.1	.2	.2						6.6	9.1
VARBL													
CALM												5.6	
	10.4	25.3	33.2	19.0	4.2	1.7	.5					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

94851
STATION

K I SAUER AFB HI
STATION NAME

5-78
YEARS

MAR
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	2.9	2.7	3.7	1.4	1.3	.2	.1				14.6	10.9
NNE	.3	2.2	1.0	.9	.3	.3						5.4	8.4
NE	1.1	1.0		.2	.1							2.4	4.9
ENE	.9	.5	.4	.2								2.0	5.5
E	1.0	.9	.6	.3								2.8	5.7
ESE	.7	.2	.6									1.7	4.8
SE	.4	.9	.4	.2								1.9	5.9
SSE	.4	1.3	1.6	.9	.1							4.3	7.9
S	1.5	2.6	4.4	2.7	.6	.1						11.9	8.6
SSW	1.2	2.7	2.3	.9								7.0	6.8
SW	.4	.3	.6	.5								1.9	8.2
WSW	.8	.1	.3	.5								1.7	7.3
W	1.0	1.5	1.0	.5								4.0	6.1
WNW	.6	2.0	1.6	.4								4.7	6.5
NW	1.2	2.4	2.4	1.1								7.0	6.9
NNW	1.2	2.6	1.7	.8	.2	.3						6.8	7.7
VARBL													
CALM												19.8	
	15.6	24.0	21.7	13.8	2.8	.3	.2	.1				100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 94836 K I SA YEN AFB MI STATION NAME 51-78 YEARS MONTH ALL MONTHS (L S Y.)

ALL MONTHS

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.6	4.7	5.3	2.2	1.3	.2	.0				18.0	11.8
NNE	.5	2.1	3.5	1.6	.4	.1						8.5	9.1
NE	.7	1.5	1.3	.5	.1							4.1	6.8
ENE	.6	.8	.7	.2								2.7	5.9
E	.6	.7	.5	.2								2.0	5.8
ESE	.3	.4	.5	.1								1.3	6.0
SE	.2	.6	.7	.3								1.8	7.8
SSE	.4	1.0	1.5	.6	.1							3.8	8.3
S	.9	2.5	3.5	3.3	.8	.1						11.2	9.4
SSW	1.0	2.1	2.0	1.7	.3							7.2	8.3
SW	.5	.9	.8	.6	.1							2.9	7.8
WSW	.6	.7	.7	.4	.0							2.5	6.7
W	.8	1.2	1.3	.6	.0							4.1	7.0
WNW	.9	1.9	1.7	.9	.1							5.5	7.1
NW	.7	1.3	1.7	1.1	.1	.0						4.9	8.3
NNW	.7	1.0	1.9	1.8	.6	.1	.0					6.2	10.2
VARBL													
CALM												13.8	
	10.9	21.6	27.1	19.8	4.8	1.7	.2	.0				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 7438

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94854
STATION

K I SAWYER AFB MI
STATION NAME

51-78
YEARS

APR
MONTH

ALL W. THE

0000-0200
HOURS (L.S.T.)

CLASS

COORDINATE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.4	3.3	5.6	.9							13.6	10.1
NNE	.6	1.4	3.7	4.2	.3	.1						10.3	10.4
NE	.2	.7	.6	.1	.1							1.4	7.7
ENE	.4	.3	.8	.1								1.7	6.2
E	.1	.9	.7	.4	.1							2.2	8.4
ESE	.4	.7	.7	.1								1.9	6.0
SE	.1	.1	.4	.3								1.0	10.3
SSE	.8	.8	1.6	.6								3.7	7.1
S	1.3	2.6	3.3	2.4								9.7	8.0
SSW	1.3	4.0	2.6	1.7								9.8	7.0
SW	.9	2.2	1.4									4.6	5.5
WSW	.8	.4	.6	.2								2.0	5.8
W	.7	1.6	.4	.1								2.8	4.9
WNW	.6	.9	.3	.1								1.9	5.2
NW	1.1	1.3	.6	.2								3.2	4.9
NNW	1.0	1.6	1.3	.9	.3	.1						5.2	7.8
VARBL													
CALM												25.0	
	11.5	21.7	22.5	17.4	1.8	.2						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

999

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/AF

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94855
STATION

K I SA-YER AFB MI
STATION NAME

69-78
YEARS

APR
MONTH

ALL MONTHS
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.0	3.7	5.2	1.1	.5						14.4	10.5
NNE	.8	1.3	4.3	3.7	.4	.1						10.4	10.1
NE	.5	.6	1.0	.7								3.0	8.2
ENE	.4	.9	.4	.1								1.9	5.6
E	.4	.2	.3	.6								1.6	7.8
ESE	.2	.4	.4		.1							1.2	6.7
SE	.1	.3	.9	.2								1.6	8.2
SSE	.4	.8	1.1	.4								2.3	7.2
S	.9	2.2	4.2	1.6	.2							9.1	8.2
SSW	1.9	3.7	2.1	1.6								9.2	6.7
SW	1.3	1.0	1.2		.1							3.7	5.8
WSW	.1	.6	.4	.2	.1							1.4	7.7
W	1.0	1.2	1.2	.1								3.6	5.2
WNW	1.0	1.3	.4	.3	.3							3.4	5.6
NW	.2	.7	.8	.4								2.1	7.7
NNW	1.4	1.1	.9	1.7	.1							5.2	7.8
VARBL													
CALA												25.3	
	12.6	18.3	23.6	17.0	2.6	.7						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/VAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835
STATION

K I SA-YER AFB MI
STATION NAME

57-76
YEARS

AP
MONTH

ALL WEATHER
CLASS

3000-3600
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	2.4	3.9	6.2	1.7	.7						16.6	11.0
NNE	.6	1.0	2.0	3.3	.7							8.1	10.7
NE	.3	.6	1.7	1.1								3.7	8.6
ENE	.3	1.3	1.0	.1								2.8	5.9
E	.4	1.1	.7	.3								2.3	5.3
ESE	.3	1.0	.4	.2								2.0	6.4
SE	.1	1.1	.5	.2								2.2	7.1
SSE	.3	.3	1.4	1.0								3.1	9.1
S	1.0	2.8	3.2	2.1								9.1	7.7
SSW	1.7	2.9	2.4	1.6	.2							8.6	7.4
SW	1.1	1.7	.8	.2								3.8	5.3
WSW	1.0	.8	.4	.2								2.4	5.0
W	.8	.8	1.1	.2	.3							3.2	7.3
WNW	1.1	2.0	1.1	.3	.1	.1						4.8	6.7
NW	.4	.9	.3	.2	.2							2.1	7.4
NNW	1.0	.7	1.1	.9	.4	.1						4.2	8.9
VAPBL													
CALM												20.8	
	12.2	21.3	22.8	18.3	3.7	.9						100.6	6.7

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY SECTION
USAFETAC
AIR WEATHER SERVICE/AC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

9483- K I SA-YER AFB HI 73-73
STATION NAME STATION NUMBER
ALL WEATHER CLASS
CONDITION
APR 1900-1100
MOON (L.S.T.)

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	1.6	4.3	8.4	4.3	1.						20.8	13.0
NNE	.5	1.6	3.7	4.7	1.0							11.4	10.9
NE	.5	1.0	1.4	2.2	.2							5.6	9.8
ENE	1.0	.4	.8	.3								2.6	6.0
E	.3	.7	1.3	.1	.1							2.6	7.6
ESE	.3	.3	.9	.3		.1						2.4	7.5
SE	.3	1.5	1.6	.1	.2							3.2	7.2
SSE	.3	1.6	2.1	.4								4.9	7.1
S	.5	2.4	2.6	3.8	.9							10.4	9.9
SSW	.6	2.1	3.0	2.1	.6							8.3	9.3
SW	.1	1.1	2.1	.7	.1							4.1	9.4
WSW	.1	1.0	1.6	.3								3.0	7.6
W	.3	.9	1.8	1.4	.3							4.6	9.5
WNW	.2	1.1	1.1	.8	.1							3.3	8.7
NW	.2	.2	.8	1.6	.4							3.2	12.1
NNW	.3	.6	.9	1.1	.4	.1						3.4	11.0
VARBL													
CALM												5.9	
	7.0	18.8	29.3	29.0	8.8	1.2						100.6	9.6

TOTAL NUMBER OF OBSERVATIONS 900

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836 STATION K I SAWYER AFB MI STATION NAME 63-78 YEARS APX NORTH
ALL WEATHER CLASS 1200-1400 HOURS (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.9	4.8	9.9	4.7	.8						21.7	13.4
NNE	.3	2.0	6.3	6.3	1.0							16.0	10.6
NE	.3	1.7	1.8	1.7	.2							5.7	8.9
ENE	.2	.8	.3	.3								1.7	7.0
E	.8	.9	.6	.1	.1							2.7	6.2
ESE	.4	.3	.8	.6								2.1	7.9
SE	.3	.6	1.4	.4								2.8	7.6
SSE	.6	1.3	1.2	2.0								5.1	9.1
S	.4	2.9	4.9	5.3	1.1	.2						14.9	10.5
SSW	.6	.8	1.8	1.2	.8	.1						5.2	10.4
SW	.1	.7	1.2	.3	.1							2.4	8.5
WSW	.2	.4	.9	.4	.2							2.2	9.3
W	.4	.8	1.6	1.1	.2							4.1	9.1
WNW	.1	.4	.7	1.0								2.2	10.0
NW		.1	.9	1.6	.4							3.0	12.7
NNW			1.3	2.7	.4	.6						5.0	13.8
VARBL													
CALM												3.2	
	5.6	14.6	30.1	35.0	9.3	1.7						100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/VAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835
STATION

K I SA-YEK AFB MI
STATION NAME

49-78
YEARS

APR
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1	2.2	5.2	11.0	4.1	.3						23.0	12.9
NNE		1.1	5.9	10.8	1.1	.2						19.1	11.9
NE	.2	1.7	6.0	2.0	.2							10.7	9.1
ENE	.7	1.0	1.1	.2								3.0	6.4
E	.4	1.1	1.0	.6								3.1	7.3
ESE	.1	.6	.3	.2								1.2	7.3
SE	.1	.6	1.2									1.9	7.6
SSE		.7	2.4	2.1	.3							5.6	10.7
S	.2	1.4	3.7	5.4	.3	.2						11.3	11.3
SSW	.1	.9	1.4	1.6	.7	.2						4.9	11.3
SW	.2	.3	1.0	.7								2.2	9.0
WSW		.2	1.3	.4		.1						2.1	10.0
W	.1	.1	1.2	.9	.2	.1						2.7	11.5
WNW		.1	.7	1.2								2.0	11.9
NW	.2		.4	1.1	.1							1.9	11.9
NNW		.4	.8	1.6	.6	.4						3.8	13.3
VARBL													
CALM												1.6	
	2.6	12.4	34.3	39.8	7.7	1.7						100.0	11.0

TOTAL NUMBER OF OBSERVATIONS

900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATIONK I SAWYER AFB MI
STATION NAME69-78
YEARSAPR
MONTHALL WEATHER
CLASS1800-2000
HOURS (L S T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	4.3	5.2	9.4	2.0	.9						23.1	10.9
NNE	1.3	4.4	8.2	5.2	.4							19.7	8.7
NE	.3	3.7	4.3	.7	.1	.1						9.2	7.7
ENE	1.2	2.6	.6	.1								4.4	4.6
E	.4	1.7	.6	.4	.1							3.2	7.4
ESE	.1	.3	.8	.1								1.3	7.6
SE	.4	.3	.8	.1								1.7	6.3
SSE	.4	1.4	1.6	1.8	.1							5.3	8.7
S	.9	2.6	4.9	4.3	.6							13.2	9.6
SSW	.2	.4	.9	1.0								2.6	9.6
SW	.1	.2	.4	.2								1.0	7.8
WSW	.1	.3	.1	.1								.7	5.8
W	.4	.1	.9	1.8								3.2	10.1
WNW		.4	.9	.2	.1							1.7	9.1
NW		.2	.4	1.0	.3							2.0	11.9
NNW	.4	.8	1.3	1.2	.2							4.0	9.4
VARBL													
CALM												3.7	
	7.8	23.9	31.9	27.8	4.0	1.0						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/VAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835 STATION K I SAWYER AFB MI 69-78 YEARS APR NORTH
ALL WEATHER CLASS 2100-2300 HOURS (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.9	4.7	4.7	5.3	.8							19.3	8.1
NNE	.0	2.3	2.1	2.2	.8	.1						8.1	9.6
NE	.6	.9	.8	.7	.2							3.1	5.0
ENE	.7	.8	.1									1.6	3.9
E	.8	1.0	.9	.6	.1							3.3	7.1
ESE	.3	.3	.8	.1								1.6	6.9
SE	.1	.6	.6	.6								1.8	8.4
SSE	.6	.9	1.0		.1							2.6	6.3
S	1.1	3.6	5.0	3.6	.1							13.3	8.4
SSW	1.3	2.2	2.3	1.3	.1							7.3	7.4
SW	.6	.7	.8	.3								2.3	6.5
WSW	.3	.6	.3	.2	.1							1.6	7.6
W	1.3	.1	.4	.1								2.0	4.4
WNW	.9	1.4	.1	.1								2.6	4.4
NW	1.6	1.6	.4									3.6	4.3
NNW	1.4	1.3	1.9	1.7	.4							6.8	8.4
VARBL													
CALM												19.2	
	16.0	22.9	22.2	16.8	2.8	.1						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAF

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATION

K 1 SAWYER AFB MI
STATION NAME

69-78
YEARS

APR
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.9	4.7	4.7	5.3	.8							19.3	8.1
NNE	.5	2.3	2.1	2.2	.8	.1						8.1	9.6
NE	.6	.9	.8	.7	.2							3.1	8.0
ENE	.7	.8	.1									1.6	3.9
E	.8	1.0	.9	.6	.1							3.3	7.1
ESE	.3	.3	.8	.1								1.6	6.9
SE	.1	.6	.6	.6								1.8	6.4
SSE	.6	.9	1.0		.1							2.6	6.3
S	1.1	3.6	5.0	3.6	.1							13.3	8.4
SSW	1.3	2.2	2.3	1.3	.1							7.3	7.4
SW	.6	.7	.8	.3								2.3	6.5
WSW	.3	.6	.3	.2	.1							1.6	7.6
W	1.3	.1	.4	.1								2.0	4.4
WNW	.9	1.4	.1	.1								2.6	4.4
NW	1.6	1.6	.4									3.6	4.3
NNW	1.4	1.3	1.9	1.7	.4							6.8	8.4
VARBL													
CALM												19.2	
	16.0	22.9	22.2	16.8	2.8	.1						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835
STATIONK I SANDYER AFB MI
STATION NAME69-70
YEARSAPR
MONTHALL WEATHER
CLASSALL
MOUSE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.6	4.4	7.7	2.4	.5						19.1	11.4
NNE	.6	1.9	4.6	5.1	.7	.1						12.9	10.4
NE	.4	1.3	2.3	1.2	.1	.0						5.3	8.6
ENE	.6	1.0	.6	.2								2.4	5.6
E	.5	.9	.8	.4	.1							2.6	7.2
ESE	.3	.6	.6	.2	.0	.0						1.7	7.1
SE	.2	.6	.9	.3	.0							2.0	7.6
SSE	.4	1.0	1.6	1.1	.1							4.1	8.6
S	.8	2.6	4.0	3.6	.4	.1						11.4	9.3
SSW	1.0	2.1	2.1	1.5	.3	.0						7.0	8.2
SW	.6	1.0	1.1	.3	.0							3.0	6.8
WSW	.3	.5	.7	.3	.1	.0						1.9	7.4
W	.6	.7	1.1	.7	.1	.0						3.3	6.0
WNW	.5	1.0	.7	.5	.1	.0						2.7	7.6
NW	.5	.6	.6	.6	.2							2.6	8.8
NNW	.7	.8	1.2	1.5	.4	.2						4.7	9.9
VARBL													
CALM												13.1	
	9.4	19.2	27.2	25.1	5.1	.9						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

7199

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836 STATION K I SAWYER AFB MI 60-78 MAY MONTH
0000-0200 HOURS (L.S.T.)
ALL WEATHER
CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	4.1	4.0	4.1	1.6	.0						17.6	3.0
NNE	1.0	2.0	2.6	.7								6.5	7.0
NE	.5	.5										1.1	3.9
ENE	.1	.4	.1	.1								.8	4.7
E	.4	1.1	.4									1.9	4.8
ESE		.5	.2									.8	5.4
SE	.3	.2	.3									.9	5.1
SSE	.3	1.5	.5	.2								2.6	5.7
S	.9	4.0	4.1	1.6	.1							10.6	7.6
SSW	1.9	6.5	2.9	1.5	.1							12.9	6.5
SW	1.7	1.5	.8	.8	.1							4.8	6.1
WSW	1.4	.6	.3									2.4	3.5
W	1.2	1.1	1.0									3.2	4.7
WNW	1.4	1.2	.1	.2	.1							3.1	5.1
NW	1.0	.9	.6									2.5	4.3
NNW	1.6	.3	.6	.1								2.7	4.3
VARBL													
CALM												25.7	
	17.0	26.5	18.6	9.6	2.0	.0						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATIONK I SA YER AFB MI
STATION NAME51-78
YEARSDAY
MONTHALL WEATHER
CLASS0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	4.2	4.6	4.6	1.3	.7						17.5	9.0
NNE	.8	2.3	2.3	1.2	.1							6.6	7.5
NE	.6	1.2	.4	.1								2.4	5.2
ENE	1.1	.8	.3									2.2	4.3
E	.3	.8	.5									1.6	5.6
ESE	.5	.1										.6	2.5
SE	.1	.3	.2	.2								.9	6.8
SSE	.3	.3	.5	.1								1.3	5.9
S	.9	3.7	3.7	1.4								9.6	7.3
SSW	2.3	6.0	2.5	.5	.3							11.6	5.8
SW	1.6	1.4	.8	.4								4.2	5.5
WSW	1.5	.9	.4	.1								2.9	4.3
W	1.3	.9	.4	.2								2.8	4.8
WNW	1.2	1.4	.5	.3								3.4	5.4
NW	.8	.9	.2	.1								1.9	4.4
NNW	1.7	.6	.5	.1		.1						3.1	5.1
VARBL													
CALM												27.4	
	17.5	25.6	13.0	9.5	1.7	.3						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

930

2

GLOBAL CLIMATELOGY BRANCH
USAFETAC
AIR LAITER SERVICE/PAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836
STATION

K I SA YFK AFB MI
STATION NAME

49-78
YEARS

MAY
MONTH

ALL WEATHER
CLASS

0000-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	3.9	6.2	4.7	1.6							17.6	9.7
NNE	1.0	3.1	3.7	1.7	.3	.1						9.9	8.2
NE	.6	1.1	.6									2.6	5.4
ENE	.4	1.3	.4									2.2	5.0
E	.5	1.0	.6									2.2	5.4
ESE	.2	.4	.5	.2								1.4	7.7
SE		.2	.8	.2								1.2	8.6
SSE	.3	.9	.4	.5								2.2	7.5
S	.9	2.8	3.2	1.7	.1							8.7	7.9
SSW	1.9	4.4	3.5	1.4	.2							11.5	6.8
SW	2.0	1.8	1.1	.9								5.8	5.6
WSW	1.0	1.5	1.0									3.4	4.9
W	1.3	1.2	.9	.1								3.4	5.0
WNW	.8	1.2	.9	.3								3.1	5.7
NW	1.2	1.1	.4	.3								3.0	5.3
NNW	.9	1.0	1.3	1.3								4.4	8.2
VARBL													
CALM												17.4	
	14.3	26.8	25.7	13.4	2.3	.1						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94834 K I SAWYER AFB MI

5-78

74Y

STATION

STATION NAME

YEARS

MONTH

ALL WINDS

CLASS

0900-1100

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.5	4.0	6.1	2.2	.4						16.3	11.8
NNE	.9	3.3	6.9	2.4	.8	.4						14.4	8.9
NE	.6	3.1	2.0	.6								6.5	6.6
ENE	1.4	1.2	.5	.1								3.2	4.5
E	.6	1.1	.4	.2								2.4	5.6
ESE	.5	.3	.0									1.5	5.4
SE	.1	.8	.6	.5	.1							2.2	8.7
SSE	.9	.5	1.2	.4	.1							3.1	7.4
S	.5	3.0	5.7	2.8	.8							12.8	9.2
SSW	.4	2.4	3.2	1.9	.6							8.6	9.1
SW	.1	1.5	2.3	1.0	.1							4.9	8.5
WSW	.6	.9	1.2	1.0								3.7	7.8
W	.8	.9	1.0	.5								3.8	7.2
WNW	.5	.5	1.7	.6								3.4	8.0
NW	.3	1.1	2.0	.9	.1							4.4	8.0
NNW	.1	.8	1.6	1.7	.4							4.6	10.5
VARBL													
CALM												4.2	
	9.0	23.8	36.3	20.9	5.2	.4						100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94834
STATION

K I SA 'YER AFB MI
STATION NAME

59-78
YEARS

MAY
MONTH

A L W E T H E
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.2	4.6	7.0	2.0	.6						16.0	12.6
NNE	.2	3.2	7.2	7.0	1.0							18.6	10.3
NE	.3	2.6	4.8	2.6	.2							10.5	8.7
ENE	.0	1.6	1.4	.3								4.0	6.5
E	.5	1.2	.5	.3								2.7	6.2
ESE	.1	.5	1.1									1.7	6.8
SE	.2	.4	1.1									1.7	7.5
SSE	.3	1.1	2.0	1.6	.1							5.4	9.6
S	.4	2.3	5.7	4.2	1.4							14.0	10.5
SSW	.3	1.4	2.2	1.1	.9							5.8	9.9
SW	.1	.3	1.6	1.4	.1							3.5	10.3
WSW	.1	.3	1.4	.8	.1							2.7	10.1
W	.3	.3	1.2	.3		.1						2.5	8.3
WNW	.1	.5	1.6	.3	.1							2.7	8.9
NW	.2	.1	1.3	1.0	.1							2.7	10.0
NNW	.3	.6	1.3	1.4	.3							4.0	10.3
VARBL													
CALM												1.5	
	4.7	18.0	39.1	29.5	6.3	.6						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS

936

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAF

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94830 K I SA-YFK AFB MI

52-78

MAY

STATION

STATION NAME

YEARS

MONTH

ALL WE, THE

1500-1700

CLASS

NOES (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1	.9	4.8	7.3	2.0	.2						15.8	12.8
NNE	.5	3.2	9.7	11.7	1.1							26.2	10.5
NE	.4	1.5	5.8	2.4								10.1	9.0
ENE	.3	1.0	1.9	.4								3.7	7.5
E	.3	.9	.8									1.9	5.8
ESE	.2	.5	.2	.3								1.3	6.7
SE		.5	.9	.1								1.5	7.5
SSE	.1	.6	2.7	3.3	.6							7.4	11.2
S	.3	1.1	3.9	4.2	2.2	.6						12.3	12.2
SSW	.5	.2	1.2	1.1	.3	.3						3.7	11.4
SW	.1	.6	1.0	1.0	.3	.1						3.1	11.0
WSW	.1	.8	1.0	1.2	.2							3.2	10.1
W	.1	.1	1.2	.4								1.8	9.0
WNW	.2	.3	.8	.6								1.9	9.2
NW		.3	1.1	.9	.4							2.7	11.4
NNW		.1	.8	1.1	.4							2.4	12.9
VARBL													
CALM												1.0	
	3.4	12.7	37.5	36.0	7.6	1.7						100.0	10.6

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/NAO

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836
STATION

K I SA-YEK AFB HI
STATION NAME

65-78
YEAR

MAY
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (LST.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.6	6.8	4.3	1.1	.						16.7	10.3
NNE	1.3	5.8	9.9	2.6	.5	.1						20.2	8.2
NE	1.0	3.7	4.8	1.4								10.9	7.2
ENE	.9	2.2	1.3	.1								4.4	5.5
E	1.7	2.0	1.1	.1								4.6	5.1
ESE		.9	.3									1.2	5.5
SE	.8	1.0	.6	.1								2.5	5.6
SSE	.6	2.7	4.1	2.8								10.2	8.4
S	.2	1.4	4.1	6.1	1.1	.1						13.0	11.4
SSW		.6	1.0	.3								1.9	8.2
SW	.2	.1	.0	.6	.8	.3						2.8	14.1
WSW		.1	.5	.3								1.0	9.8
W	.4	.3	.3	.2								1.3	6.7
WNW	.1	.2	1.0	.4								1.7	8.8
NW		.8	.4	1.1	.1							2.4	9.8
NHW	.3	.4	.9	1.1	.2	.1						2.9	10.3
VARIABLE													
CALM												7.4	
	8.4	24.7	37.7	21.0	3.8	1.4						100.0	9.6

TOTAL NUMBER OF OBSERVATIONS

939

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/VAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

9485- STATION K I SA-YFK AFB MI YEAR 78 DAY 2100-2300
STATION NAME CLASS ALL WFTHE
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	5.2	4.9	3.4	3.2	.6	1.						18.4	7.6
NNE	1.9	1.9	1.3	1.0								6.7	6.2
NE	.6	1.3	.3	.1								2.4	5.0
ENE	1.0	.9	.1									1.9	3.9
E	.9	1.3	.2									2.4	4.3
ESE	.1	.8	.1	.2								1.2	6.5
SE	.4	1.2	.4	.2								2.3	5.8
SSE	.6	3.2	1.0	.1								5.6	5.8
S	1.1	4.1	5.8	3.3	.5							14.8	8.5
SSW	1.1	3.4	2.3	1.1		.1						8.0	7.0
SW	.5	.9	.2	.6								2.3	7.3
WSW	.4	.6										1.1	4.0
W	1.6	.3										1.9	2.6
WNW	1.0	1.2	.2	.2	.1							2.7	5.6
NW	.4	.8	.6	.1	.1							2.0	6.6
NNW	1.2	1.0	.4	.9	.3	.1						3.9	7.5
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	22.6	
	18.1	27.7	17.6	11.1	1.7	1.2						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 930

AL CLIMATOLOGY BRANCH
TAC
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94834 K I SAWYER AFB MI 6-78 MAY
STATION STATION NAME YEARS MONTH
ALL WEATHER CLASS ALL
CONDITION HOURS (L & T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	3.0	4.9	5.2	1.6	.5						17.0	10.3
NNE	.9	3.1	5.5	3.5	.5	.1						13.6	9.0
NE	.6	1.9	2.4	.9	.0							5.8	7.5
ENE	.7	1.2	.8	.1								2.8	5.6
E	.6	1.2	.6	.1								2.5	5.3
ESE	.2	.5	.4	.1								1.2	6.1
SE	.2	.6	.6	.2	.0							1.6	6.9
SSE	.4	1.4	1.6	1.2	.1							4.7	8.3
S	.6	2.8	4.5	3.2	.8	.1						12.0	9.5
SSW	1.1	3.1	2.3	1.1	.3	.1						8.0	7.5
SW	.8	1.0	1.0	.6	.2	.1						3.9	8.1
WSW	.6	.7	.7	.4	.0							2.5	6.9
W	.9	.7	.8	.2		.5						2.6	6.0
WNW	.7	.8	.8	.4	.0							2.8	6.8
NW	.5	.7	.8	.5	.1							2.7	7.7
NNW	.8	.6	.9	.9	.2	.0						3.5	8.7
VARBL													
CALM												12.8	
	11.6	73.2	28.8	18.9	3.8	.3						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

9483- STATION K 1 SANDY FAFB MI 67-78 YEARS MONTH JULY
CLASS ALL AT THE HOURS 0000-0200
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	3.0	2.3	1.4	.1							9.9	6.9
NNE	1.0	1.2	1.6	.4								4.2	5.5
NE	.7	.4	.2									1.3	4.4
ENE	.4	.3										.8	3.3
E	.1	.3										.4	3.8
ESE	.1	.9	.1									1.1	4.4
SE		.6	.6	.1								1.2	7.2
SSE	.6	1.7	.8	.1								3.1	5.6
S	2.4	4.0	4.2	2.2	.4							13.3	7.3
SSW	3.0	6.1	4.3	.6	.1							14.1	5.7
SW	2.2	1.9	1.1	.3								5.6	5.2
WSW	1.8	1.1	.3									3.2	3.8
W	3.4	1.6	.6	.1								5.7	3.8
WNW	1.0	.3	.6									1.9	4.6
NW	1.1	.7	.3	.2								2.3	4.8
NNW	1.1	1.0	1.0									3.1	5.1
VARBL													
CALM												28.7	
	21.6	25.1	18.0	6.0	.7							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836 STATION K I SAWYER AFB MI 67-78 YEARS NORTH
ALL WEATHER CLASS 0300-0500 HOURS (L & T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	3.1	2.7	2.3	.2							9.6	7.8
NNE	.4	1.7	1.7	.6								4.3	7.2
NE	.4	.9	.1									1.4	4.1
ENE	.3	.2										.6	3.8
E	.3	.7	.3									1.3	5.1
ESE	.2	.3	.1									.7	4.7
SE		.2	.2									.4	6.8
SSE	.1	1.3	1.1	.3	.1							3.0	7.9
S	1.7	4.3	2.9	1.6								10.4	7.0
SSW	3.1	6.3	3.8	1.6								14.8	6.1
SW	1.4	3.0	1.6									6.0	5.2
WSW	2.2	1.3	.8									4.3	4.1
W	1.9	2.1	.8									4.8	4.4
WNW	1.2	1.7	.6	.1	.1							3.7	5.2
NW	1.0	.7	.3		.1							2.1	4.9
NNW	.2	.4	.7	.4								1.8	7.6
VARBL													
CALM												30.8	
	15.9	27.3	17.6	6.9	.6							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 94836 K I SAWYER AFB MI CLASS ALL WFTHE MONTH JULY YEARS 57-78 HOURS (LST) 0000-0600

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	3.1	3.0	3.7	.2							11.9	8.1
NNE	.4	2.3	1.6	1.0								5.3	7.2
NE	.6	.6	.2	.1								1.4	5.0
ENE		.6		.1								.7	5.8
E	.2	.7										.9	4.6
ESE	.2	.1	.3									.7	6.2
SE		.3	.3									.7	6.5
SSE		.9	1.8									2.7	7.5
S	1.0	3.5	4.8	1.4	.2							10.9	7.6
SSW	2.1	6.1	5.7	2.0	.1							16.0	7.2
SW	.9	2.1	3.8	.2								7.0	6.9
WSW	1.2	1.8	1.9	.1								5.0	5.7
W	1.9	3.2	2.7	.1								7.9	5.7
WNW	1.0	1.6	1.3	.4								4.3	6.3
NW	.9	1.1	1.1	.2	.1							3.5	6.4
NNW	.8	.9	1.8	.1								3.6	6.5
VARBL													
CALM												17.5	
	13.1	28.8	30.3	9.6	.7							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 898

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAO

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835

K I SA-YEK AFB HI

65-78

JUL

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0900-1100

CLASS

HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.1	2.2	4.7	.7	.2						9.5	11.3
NNE	1.3	2.4	3.4	2.6	.1							9.9	8.2
NE	1.0	1.7	2.0									4.7	5.8
ENE	1.1	.6	1.1									3.0	5.0
E	.9	1.1	.4	.1								2.6	4.8
ESE		.3	.6									.9	7.4
SE	.2	1.0	.7	.1								2.0	6.1
SSE	.2	1.1	2.1	1.1								5.1	7.9
S	.9	2.2	4.9	4.0	.3	.1						12.5	9.7
SSW	.9	1.2	5.3	4.8	.8	.1						13.1	10.3
SW	.4	.9	2.4	1.7	.1							5.6	9.0
WSW	1.0	1.3	3.4	1.7								7.5	8.1
W	.9	3.0	3.9	.7								8.5	7.0
WNW	.4	.8	2.3	1.2	.1							4.9	8.8
NW	.2	.7	1.6	.9	.2							3.6	9.2
NNW	.2	.8	1.2	1.2	.2							3.7	9.5
VARBL													
CALM												3.2	
	10.4	20.5	37.7	24.7	2.6	.4						100.0	8.4

TOTAL NUMBER OF OBSERVATIONS

899

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 94834 K I SA-YER AFB MI STATION NAME 54-78 YEARS MONTH JU, 1200-1400 HOURS (L.S.T.)
CLASS ALL WINDS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 15	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.6	2.2	4.7	1.1							8.9	12.1
NNE	.0	2.2	5.7	5.0	.1							13.6	9.5
NE	.4	1.8	6.0	1.7								9.9	8.4
ENE		1.6	2.4									4.0	7.1
E	.3	1.4	.9	.1								2.8	6.0
ESE	.4	1.1	.4									2.0	5.3
SE	.2	.8	1.0	.2								2.2	7.2
SSE	.2	1.2	2.2	1.4	.4							5.6	9.7
S	.4	1.9	4.2	5.6	1.0	.1						13.2	10.9
SSW	.3	.8	4.1	3.7	.9	.2						10.0	11.2
SW	.3	.8	2.6	2.8	.4							6.9	10.4
WSW	.6	.6	1.6	2.2	.2							5.1	9.6
W	.3	.8	1.9	1.0								4.0	8.8
WNW	.3	.3	1.7	1.8	.2							4.3	10.3
NW	.2	.4	1.6	1.0								3.2	9.6
NNW		.3	1.4	1.1								2.9	10.1
VARBL													
CALM												1.4	
	5.1	16.6	39.9	32.2	4.4	.3						100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/PAAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94835 STATION K I SA-YE-K 4FB MI 7-78 YEARS NORTH
ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	1.2	3.9	3.0	1.6							10.7	11.5
NNE	.6	3.0	9.7	4.6	.3							18.1	9.4
NE	.6	2.8	8.7	2.0								14.0	8.2
ENE	.3	1.8	2.6	.3								5.0	6.8
E	.4	1.4	.9	.1								2.9	5.8
ESE	.6	.6	.2									1.3	4.3
SE	.2	.4	.8									1.4	6.7
SSE		1.1	2.4	1.6								5.1	9.2
S	.1	.9	4.9	7.3	1.1	.2						14.6	11.9
SSW	.3	.3	2.6	3.6	1.1							7.9	11.6
SW	.1	.2	.8	2.7	.6							4.3	12.9
WSW	.1	.7	1.3	1.1	.1							3.3	10.0
W	.1	.3	.8	1.2								2.4	10.0
WNW		.3	1.3	1.0	.1							2.8	10.8
NW		.3	.6	1.6	.2							2.9	11.0
NNW	.1	.6	1.0	.9	.1	.1						2.8	10.6
VARBL													
CALM												.4	
	3.8	16.0	42.6	31.7	5.2	.1						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS 900

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/WWC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94834
STATION

K I SAWYER AFB MI
STATION NAME

63-78
YEARS

JUN
MONTH

ALL REF. TIME
CLASS

1800-2000
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.6	4.5	3.6	.7							12.1	9.6
NNE	.7	5.6	7.7	1.6								15.5	7.4
NE	1.2	4.1	5.9	.1								11.4	6.5
ENE	.8	3.0	1.3	.1								5.2	5.4
E	1.9	2.7	1.1									5.7	4.7
ESE	.6	.6	.2									1.3	4.4
SE	.1	1.3	.6	.1								2.3	6.3
SSE	.3	1.2	4.2	1.7								7.5	8.8
S	.3	1.6	6.5	4.9	.6							13.8	10.1
SSW	.1	.4	2.6	2.2	.1							5.5	10.8
SW	.1	1.0	1.0	1.2	.3							3.7	10.1
WSW	.1	1.1	.8	.6		.2						2.8	8.9
W	.4	.9	1.2	.1								2.7	6.6
WNW	.1	.8	.9	1.2								3.0	9.6
NW	.2	.4	.7	.6	.1							2.0	8.9
NNW	.2	.6	1.0	.6	.1							2.5	8.8
VARBL													
CALM												3.0	
	8.0	27.9	40.4	18.5	1.9	.2						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 896

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94857 STATION K I SAWYER AFB HI 4, -78 YEARS MONTH JUL
CLASS ALL REF. THE. 2100-2300
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.1	3.4	2.9	2.2	.2							12.9	6.4
NNE	1.8	2.0	.7	.1								4.6	4.5
NE	.9	.6	.3									1.8	4.4
ENE	.8	.6	.1									1.4	3.6
E	1.3	1.1										2.4	3.3
ESE	.7	1.0	.2									1.9	4.0
SE	1.8	1.2	.4	.1								3.6	4.3
SSE	1.2	2.4	1.2	.2								5.1	5.6
S	2.4	4.6	7.3	4.0	.1							18.5	7.7
SSW	1.9	3.1	2.2	.9		.1						9.2	6.5
SW	1.7	1.7	.7	.6								4.6	5.2
WSW	1.2	1.1	.1									2.4	3.6
W	1.0	.8	.7	.3								2.8	5.5
WNW	.6	1.1	.1	.2								2.0	4.9
NW	1.1	.8	.4	.2								2.6	5.0
NNW	.9	1.1	1.8									3.8	6.1
VARBL													
CALM												21.5	
	23.4	26.6	19.2	8.9	.3	.1						100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94834
STATION

K I SAWYER AFB MI
STATION NAME

67-78
YEARS

JULY
MONTH

ALL WEATHER
CLASS

ALL
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.3	3.0	3.4	.6	.0						10.7	9.1
NNE	.8	2.5	4.0	2.0	.1							9.4	8.1
NE	.7	1.6	2.9	.5								5.7	7.1
ENE	.5	1.1	.9	.1								2.6	5.8
E	.7	1.2	.5	.0								2.4	4.9
ESE	.3	.6	.3									1.2	4.9
SE	.3	.7	.6	.1								1.7	6.0
SSE	.4	1.4	2.0	.8	.1							4.6	8.0
S	1.2	2.9	5.0	3.9	.5	.1						13.4	9.1
SSW	1.5	3.1	3.8	2.4	.4	.1						11.2	8.2
SW	.9	1.4	1.7	1.2	.2							5.5	8.0
WSW	1.0	1.1	1.3	.7	.0	.0						4.2	7.0
W	1.3	1.6	1.6	.4								4.8	6.2
WNW	.6	.9	1.1	.8	.1							3.4	7.9
NW	.6	.6	.8	.6	.1							2.8	7.7
NNW	.4	.7	1.2	.5	.1	.0						3.0	7.9
VARBL													
CALM												13.3	
	12.7	23.7	30.7	17.3	2.0	.2						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

7192

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

94825 STATION K I SA-YER AFB HI TELLS 78 MONTH JUL

ALL REF. THIS

0000-0200
HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.6	2.2	2.0	1.0	.2							8.9	5.9
NNE	.9	1.9	.5	.2								3.6	5.2
NE	.3	.1										.4	3.3
ENE	.1											.1	3.0
E	.2	.4	.2									.9	4.9
ESE	.2		.2									.4	4.8
SE	.1	.3	.5									1.0	6.6
SSE	.9	.9	.1									1.8	3.8
S	.9	2.7	3.8	1.2	.2							8.7	7.7
SSW	3.0	5.7	6.4	.8	.1							15.9	6.3
SW	2.0	2.5	2.4	.5								7.4	5.8
WSW	1.2	1.7	1.1									4.0	5.3
W	3.1	1.4	.8	.3								5.6	4.3
WNW	1.8	1.6	.3									3.8	3.6
NW	1.9	1.8	.3									4.1	3.7
NNW	1.2	.6	1.0	.2								3.0	5.5
VARBL													
CALM												30.4	
	21.4	23.9	19.6	4.2	.5							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 929

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94825
STATIONK I SA-YFK AFB MI
STATION NAME54-78
YEARSJUL
MONTHALL AF TH-
CLASS0300-0500
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.9	3.1	3.1	1.3	.3							9.8	7.0
NNE	.0	1.0	.4	.1								2.2	5.1
NE		.3										.3	4.7
ENE	.2											.2	3.0
E	.4	.1										.5	2.6
ESE		.2	.1									.3	6.3
SE	.2	.1	.1									.4	3.8
SSE	.5	.3	.3									1.6	5.1
S	1.1	3.3	3.3	1.1								8.9	6.9
SSW	3.1	5.0	5.6	.3								14.0	5.9
SW	1.8	2.7	1.7	.9								7.1	5.9
WSW	.8	1.5	1.7									4.0	5.7
W	3.7	1.7	1.0	.1								6.5	4.1
WNW	3.0	1.6	.1									4.8	3.1
NW	1.4	.8	.1									2.3	3.5
NNW	.4	2.3	1.1	.1								3.9	5.8
VARBL													
CALM												33.2	
	19.3	24.5	18.8	3.9	.3							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

926

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAF

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

9483- STATION K I SA YER AFB HI 87-78 JUL MONTH
0000-0800 HOURS (L & T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	3.0	4.0	3.3	.1							11.6	8.3
NNE	.6	1.4	1.7	.2								4.1	6.1
NE	.2	.4	.2									.9	4.5
ENE	.3	.4										.8	3.9
E	.5	.1	.1									.8	3.0
ESE	.1	.3	.2									.6	4.8
SE	.3	.2	.4									1.0	5.7
SSE	.2	.2	.6	.4								1.5	7.6
S	1.3	3.0	4.0	1.1								9.4	7.1
SSW	2.6	2.4	5.9	2.6								13.4	7.6
SW	1.6	2.4	1.9	.5								6.5	5.7
WSW	2.4	3.3	1.4									7.1	4.7
W	2.9	3.2	2.3	.2								8.6	5.1
WNW	1.4	1.9	1.0									4.3	4.8
NW	1.2	.4	1.1	.1								2.8	5.5
NNW	1.2	1.7	1.1	.1								4.1	5.5
VARBL													
CALM												27.7	
	18.2	24.5	25.9	8.6	.1							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

94835 K I SA-VEK AFB HI

1978

JUL

STATION

STATION NAME

YEAR

MONTH

ALL WINDS

CLASS

0900-1100

MOVES (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N	.5	1.7	4.0	4.3	.5							11.1
NNE	.5	3.0	4.0	1.6								9.1
NE	.6	1.8	2.5	.2								5.2
ENE	.3	1.9	1.0									3.2
E	.6	1.0	.5									2.2
ESE	.5	.9	.1									1.5
SE	.3	.4	.2	.1								1.1
SSE	.3	.4	.9	.6								2.4
S	1.3	2.0	3.9	2.0	.6							9.9
SSW	.6	1.7	5.1	5.3	.8							13.5
SW	.5	2.0	3.1	1.7	.1							7.5
WSW	.3	2.0	2.9	1.1	.2							6.6
W	.9	3.0	2.8	1.6	.1							8.4
WNW	.2	2.5	2.7	1.4		.1						6.9
NW	.6	.5	1.6	.6								3.4
NNW	.3	1.0	1.7	.1								3.1
VARBL												
CALM												4.5
	8.8	26.0	36.9	20.9	2.4	.1						100.0

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

9483- STATION K I SAWYER AFB MI 67-78 YEARS JUL MONTH
1200-1400 HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.3	3.1	3.2	.9	.1						9.2	10.7
NNE	.5	3.1	6.4	4.2	.1							14.3	9.2
NE	.8	1.6	5.5	1.1								9.0	8.2
ENE	.3	1.6	1.7									3.7	6.3
E	.3	1.3	.5									2.2	5.3
ESE	.5	.9	.5									1.9	5.3
SE	.3	1.0	1.0	.3								2.6	6.7
SSE	.5	.6	1.3	.8	.1							3.3	8.4
S	.5	1.4	2.3	3.5	.8							8.4	10.4
SSW	.5	1.1	3.7	5.2	1.8							12.3	11.7
SW	.5	1.1	3.3	1.5	.3							6.8	8.8
WSW	.6	1.4	3.1	1.6								7.0	8.8
W	.5	1.6	2.8	2.0								7.0	8.8
WNW	.2	.9	2.7	2.5								6.3	10.1
NW		.3	1.1	.9								2.3	9.9
NNW		.6	.6	.6								1.9	9.2
VARBL													
CALM												1.8	
	6.9	19.8	39.7	27.6	4.0	.1						100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 927

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94834 K I SAWYER AFB MI 59-78 JUL
STATION STATION NAME YEARS NORTH
ALL WEATHER
CLASS
1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.9	2.3	3.6	1.1							8.1	11.6
NNE		1.9	12.7	4.1								18.7	9.3
NE	.2	2.7	8.1	1.8								12.8	8.5
ENE	.6	2.8	1.8	.1								5.4	6.2
E	.1	1.3	.3	.1								1.8	5.9
ESE	.2	.4	.2	.2								1.1	7.1
SE	.1	1.0	.9	.2								2.2	7.0
SSE	.1	.3	1.4	1.0								2.8	9.9
S	.4	.9	2.8	3.8	.5	.1						8.5	10.7
SSW	.4	1.1	3.9	5.2	1.4							11.9	11.6
SW		1.0	2.7	1.7	.2							5.6	10.0
WSW	.1	1.1	2.6	2.0	.1							5.9	9.7
W	.2	.8	2.2	.9	.1							4.1	9.2
WNW	.2	.3	1.5	2.6	.2	.1						5.0	11.5
NW		.3	1.0	1.0		.1						2.4	11.0
NNW		.3	1.3	.8	.2							2.6	10.4
VARBL													
CALM												1.2	
	3.1	17.0	45.5	29.0	3.9	.3						100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 929

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94834
STATION

K I SAWYER AFB HI
STATION NAME

1978
YEARS

JUL
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.7	4.5	3.0	.3							12.1	8.3
NNE	1.5	5.1	5.2	1.8		.1						14.7	7.3
NE	2.7	4.3	3.0	.2								10.2	5.4
ENE	.5	3.7	1.4	.1								5.7	5.4
E	1.3	1.5	.3									3.1	4.0
ESE	.4	.8	.2									1.4	4.5
SE	.4	.1	.9									1.4	5.8
SSE	.1	.9	2.4	.8								4.1	8.3
S	.4	.8	6.5	4.8	.3							12.8	10.5
SSW	.5	1.3	3.0	4.0	.4							9.3	10.2
SW	.6	1.0	1.6	1.6								4.8	8.3
WSW	.1	.8	1.7	.6								3.2	8.1
W	.4	.9	1.2	.4								2.9	7.0
WNW	.2	1.3	1.5	1.1								4.1	9.6
NW	.5	.4	1.6	.4	.1							3.1	8.1
NNW		.9	1.6	.9	.4							3.8	10.1
VARBL													
CALM												3.2	
	11.4	26.2	37.7	19.8	1.6	.1						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

929

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATIONK I SAWYER AFB MI
STATION NAME69-76
YEARSJUL
MONTHALL WEATHER
CLASS2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.0	3.2	2.6	1.3	.1							11.2	5.7
NNE	.9	1.5	1.4	.1								3.9	5.7
NE	1.0	.9	.5									2.4	4.2
ENE	.8	.3	.1									1.2	3.4
E	1.2	.5										1.7	2.9
ESE	.3	.5	.1									1.0	4.0
SE	.4	.8	.1									1.3	4.0
SSE	.6	.9	1.1	.1								2.7	6.1
S	2.3	4.6	5.6	3.5								16.0	7.4
SSW	1.4	4.2	4.7	1.7	.2							12.3	7.5
SW	1.9	1.6	1.7	.2								5.5	5.4
WSW	1.1	1.5	1.0									3.6	4.9
W	1.6	1.1	.5	.4								3.7	5.1
WNW	1.6	1.2	.6									3.5	4.3
NW	1.1	1.2	.4	.1	.1							2.9	5.2
NNW	1.4	.6	.8	.1								2.9	5.0
VARBL													
CALM												24.4	
	21.6	24.7	21.4	7.6	.4							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

927

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/PAF

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94834

K I SAUYER AFB HI

1978

JUL

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.3	3.2	2.5	.4	.1						10.2	6.4
NNE	.7	2.4	4.2	1.5	.0	.6						8.8	8.0
NE	.7	1.5	2.5	.4								5.1	7.0
ENE	.4	1.3	.8	.0								2.5	5.6
E	.6	.8	.3	.0								1.6	4.3
ESE	.3	.5	.2	.0								1.0	5.1
SE	.3	.5	.5	.1								1.4	6.0
SSE	.4	.6	1.0	.5	.0							2.5	7.5
S	1.0	2.3	4.0	2.6	.3	.1						10.3	8.6
SSW	1.5	2.8	4.8	3.1	.6							12.8	8.7
SW	1.1	1.8	2.3	1.1	.1							6.4	7.3
WSW	.8	1.7	1.9	.7	.0							5.2	7.1
W	1.7	1.7	1.7	.8	.0							5.8	6.4
WNW	1.1	1.4	1.3	.9	.0	.1						4.8	7.2
NW	.8	.7	.9	.4	.0	.0						2.9	6.6
NNW	.6	1.0	1.1	.4	.1							3.2	7.1
VARBL													
CALM												15.2	
	13.8	23.3	30.7	15.2	1.7	.1						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

7427

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835
STATION

K I SAWYER AFB MI
STATION NAME

59-78
YEARS

AUG
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.5	3.2	1.7	1.0								8.4	5.8
NNE	.4	1.0	.9	.3								2.6	6.7
NE	.5	.5	.3									1.4	4.4
ENE	.3		.2									.5	4.4
E	.1	.1										.2	3.5
ESE	.3											.3	1.3
SE	.2	.4	.2									.9	5.1
SSE	.3	.4	.3	.2								1.3	6.7
S	2.2	3.9	4.3	1.4	.1							11.9	6.2
SSW	2.0	6.6	5.0	1.9	.1							15.6	6.9
SW	.0	2.7	2.0	.2								5.6	6.0
WSW	.0	1.1	.2	.1								2.0	4.6
W	2.4	1.4	.4	.2								4.4	4.1
WNW	1.7	1.5	.6									3.9	4.1
NW	1.4	1.5	.1	.2								3.2	4.3
NNW	1.4	1.0	.8									3.1	4.8
VARBL													
CALM												34.6	
	17.1	25.3	17.1	5.6	.2							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 928

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94834
STATIONK I SAWYER AFB MI
STATION NAME65-78
YEARSAUG
MONTHALL WEATHER
CLASS0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	3.3	1.9	.5								8.0	5.7
NNE	.3	1.2	1.0									2.5	6.0
NE	.2	.8										1.0	4.3
ENE	.3	.1										.4	3.0
E	.1	.1										.2	3.0
ESE	.3											.3	2.3
SE	.2	.1										.3	3.0
SSE	.2	1.1	.9									2.2	6.0
S	1.9	3.9	3.3	.9	.1							10.2	6.4
SSW	2.7	5.9	3.8	1.0	.2							13.6	6.2
SW	2.4	2.6	2.3	.3								7.6	5.3
WSW	2.3	1.1	.9									4.2	4.3
W	1.4	2.1	.5									4.0	4.3
WNW	2.5	1.2	.8		.1							4.6	4.3
NW	1.1	1.1	.2	.1								2.5	4.7
NNW	1.1	1.2	.4	.4								3.1	5.3
VARBL													
CALM												35.3	
	19.3	25.7	16.0	3.2	.4							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

926

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATION

K I SAWYER AFB MI
STATION NAME

59-78
YEARS

AUG
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	2.2	4.0	1.1								9.3	6.9
NNE	.5	1.3	.9	.2								2.9	6.3
NE	.2	.4										.6	4.5
ENE	.3	.2	.3									.9	5.1
E	.2	.1										.4	2.5
ESE	.3	.2										.5	3.2
SE	.1	.5		.1								.8	5.7
SSE	.5	.9	.6									2.0	5.5
S	1.3	4.0	3.9	1.4								15.6	7.1
SSW	2.4	5.3	4.3	1.8								13.8	6.6
SW	1.6	2.6	2.4	.6								7.2	6.2
WSW	1.6	1.9	1.3	.3								5.2	5.4
W	2.8	3.2	1.2	.1								7.3	4.7
WNW	1.7	2.7	.8	.1								5.3	4.5
NW	1.3	1.8	1.1									4.2	4.8
NNW	.4	1.3	.4	.2								2.4	6.1
VARBL													
CALM												26.6	
	17.6	28.7	21.1	9.0								100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

928

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/VAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94834
STATION

K I SA-YER AFB HI
STATION NAME

59-78
YEARS

AUG
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.0	4.4	3.7	.1							10.8	9.2
NNE	.9	2.0	3.1	1.2								7.2	7.5
NE	.4	1.9	.8	.1								3.2	5.7
ENE	.3	.6	.1	.1								1.6	4.4
E	.3	.8	.2									1.7	4.3
ESE	.5	.6										1.2	3.3
SE	.2	.1	.2	.1								.6	6.5
SSE	.0	.5	1.1	.3								2.6	6.6
S	.6	1.6	3.7	3.0	.3							9.3	9.5
SSW	1.0	1.5	6.4	4.5	.4	.2						14.0	9.7
SW	.9	2.6	3.6	3.1	.2							10.3	8.8
WSW	1.3	2.6	3.8	1.7	.1							9.5	7.7
W	1.6	2.3	3.3	.6	.1							8.1	6.8
WNW	.3	2.7	2.2	.9		.1						6.1	7.5
NW	.6	1.9	2.4	.9	.1							5.9	7.7
NNW	.3	.6	1.7	.9	.1							3.7	8.5
VARBL													
CALM												4.2	
	11.4	24.5	36.8	21.2	1.5	.3						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835
STATION

K I SAWYER AFB MI
STATION NAME

54-78
YEARS

AUG
MONTH

ALL AT THE
CLASS

1200-1400
MOVES (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	1.5	4.4	3.9	.1							10.3	9.3
NNE	.4	1.6	6.4	2.5	.1							11.0	2.9
NE	.5	2.6	4.0	.5								7.6	7.0
ENE	.4	.9	.9	.2								2.4	6.4
E	.2	1.5	.6	.1								2.5	5.8
ESE	.3	.3	.3									1.0	5.0
SE	.1	.3	.5	.2								1.2	7.2
SSE	.1	.8	1.1	.5								2.5	8.6
S	.5	1.4	4.1	4.4		2						11.1	10.6
SSW	.2	1.4	3.8	4.0	1.0	.3						11.5	12.0
SW	.5	.8	4.3	3.3	.3	.2						9.5	10.5
WSW	.6	1.5	3.8	2.4	.4	.1						8.8	9.5
W	.4	1.2	2.6	1.2		.1						5.5	8.5
WNW	.4	1.3	2.5	1.8	.1							6.1	9.0
NW	.3	.9	2.0	1.0	.1							4.3	9.0
NNW	.1	.8	.9	1.3	.1							3.1	10.2
VARBL													
CALM												1.6	
	5.8	18.6	42.1	27.3	3.6	1.5						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS

929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836

K I SA-YFK AFB HI

59-78

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

1500-1700

NOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	.9	4.1	3.0	.4							8.7	10.2
NNE	.4	3.1	6.0	4.3								15.8	8.6
NE	.6	3.2	8.2	1.2								13.2	7.6
ENE	.5	1.8	2.6	.3								5.4	6.6
E	.1	.6	.3									1.1	5.2
ESE	.3	.6	.4									1.4	5.6
SE		.6	.5									1.2	6.6
SSE	.3	.5	1.7	.8								3.3	8.5
S	.2	1.3	2.6	6.7	.6	.5						12.1	12.3
SSW	.3	1.4	4.1	4.1	.6	.1						10.7	10.7
SW	.1	.5	2.2	2.9	.3							6.0	11.0
WSW	.4	1.3	2.4	2.2	.6	.1						7.0	10.5
W	.5	.5	1.8	1.1	.1							4.1	8.9
WNW	.1	.3	1.8	1.9								4.2	10.5
NW	.1	.2	1.1	1.4								2.8	10.7
NNW		.4	1.1	.5	.1							2.2	9.8
VARBL													
CALM												.9	
	4.6	17.5	42.8	30.4	3.0	.5						100.0	9.5

TOTAL NUMBER OF OBSERVATIONS

929

GLOBAL CLIMATOLOGY BRANCH
USAF-TAC
AIR WEATHER SERVICE/PAO

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835 K I SAWYER AFB MI

87-78

ALG

STATION

STATION NAME

YEAR

MONTH

ALL MONTHS

1800-2000

CLASS

NOTES (U.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.0	3.3	4.0	1.0	.1							11.9	7.3
NNE	1.4	4.7	4.5	1.2								11.8	6.0
NE	2.0	5.4	3.2	.1								10.8	5.5
ENE	2.0	3.0	1.2									6.2	4.6
E	1.4	1.2	.2									2.8	3.8
ESE	.5	.4										1.0	3.3
SE	.5	1.1	.5									2.2	5.0
SSE	.5	1.0	2.3	.6								4.5	7.7
S	1.0	1.5	5.6	6.0	.4	.1						14.6	10.2
SSW	.2	1.7	3.4	2.6	.4	.2						8.6	9.9
SW	.5	.6	1.9	1.0	.1							4.2	8.6
WSW	.3	.6	1.1	.6	.1							2.8	8.3
W	1.0	.9	.9	.1	.2							3.0	5.2
WNW	.3	.8	1.7	.4								3.2	7.5
NW	.3	.8	2.2	1.1								4.3	8.7
NNW	.4	.3	1.0	.6		.1						2.5	8.7
VARB.													
CALM												5.5	
	14.6	27.3	34.3	16.4	1.4	.4						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

94856
STATION

K I SAWYER AFB HI
STATION NAME

57-78
YEARS

AUG
MONTH

ALL WINDS
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.6	3.6	2.5	.2								9.8	5.1
NNE	1.0	1.0	.6									3.2	4.6
NE	1.0	.6	.3									1.9	4.1
ENE	.2	.4	.1									.8	4.3
E	1.3	.3	.1									1.7	2.9
ESE		.4	.2									.6	5.3
SE	.8	.4	.5	.1								1.8	5.4
SSE	1.0	1.2	.9	.1								3.1	5.0
S	2.4	4.6	6.0	3.4	.5							17.0	7.9
SSW	1.3	4.4	4.8	2.5								13.0	7.6
SW	1.0	1.5	1.2	.2								3.9	5.9
WSW	1.0	.9	.1									1.9	3.6
W	2.0	.9	.4	.1								3.4	4.0
WNW	.9	1.0	.9	.1								2.8	5.5
NW	1.5	1.1	.2									2.8	3.6
NNW	1.3	1.7	.4									3.4	4.2
VARBL													
CALM												28.6	
	20.6	24.0	19.5	6.8	.5							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

928

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATIONK I SAWYER AFB MI
STATION NAME59-78
YEARSAUG
MONTHALL WEATHER
CLASSALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.5	3.5	1.9	.1							9.7	7.6
NNE	.7	2.0	3.2	1.2	.0							7.1	7.6
NE	.7	1.9	2.1	.2								5.0	6.4
ENE	.6	.9	.7	.1								2.3	5.4
E	.5	.6	.2	.0								1.3	4.3
ESE	.3	.3	.1									.8	4.1
SE	.3	.5	.3	.1								1.1	5.7
SSE	.5	.6	1.1	.3								2.7	7.0
S	1.3	2.8	4.2	3.4	.3	.1						12.1	8.9
SSW	1.3	3.5	4.4	2.8	.5	.1						12.6	8.5
SW	1.0	1.7	2.5	1.5	.1	.0						6.8	8.0
WSW	1.0	1.4	1.7	.9	.2	.0						5.2	7.6
W	1.5	1.5	1.4	.4	.1	.0						5.0	6.1
WNW	1.0	1.4	1.4	.7	.0	.0						4.5	6.7
NW	.8	1.2	1.2	.6	.0							3.8	6.9
NNW	.6	.9	.8	.5	.0	.0						2.9	7.1
VARBL													
CALM												17.1	
	13.9	24.0	28.7	14.6	1.3	.3						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

7426

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATION

K I SAWYER AFB MI
STATION NAME

1978
YEARS

SEP
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.8	2.0	1.7		.1						7.1	7.5
NNE	.1	.9	.2	.4								1.7	7.5
NE	.3	1.2	.3	.3								2.2	5.9
ENE	.1	.3	.2									.7	5.7
E	.2	.2	.3	.2								1.0	7.3
ESE	.2	.6	.3	.2								1.3	7.0
SE	.1	.8	.4	.2								1.6	7.4
SSE	.4	1.0	1.1	1.0								3.6	8.4
S	1.4	3.3	5.1	1.9	.4							12.2	8.0
SSW	2.7	3.4	4.0	1.9								12.0	7.0
SW	1.7	2.3	1.6	.7								6.2	5.9
WSW	1.1	1.8	.9	.4								4.2	6.1
W	2.8	2.3	.7	.1								5.9	4.3
WNW	1.3	1.6	1.1	.4								4.4	5.9
NW	1.7	2.6	.9	.1								5.2	5.1
NNW	1.1	1.2	1.4	.2								4.0	5.9
VARBL													
CALM												26.7	
	16.9	25.3	20.7	9.9	.4	.1						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATION

K I SAWYER AFB MI
STATION NAME

59-78
YEARS

SEP
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.6	2.4	1.3	.2	.1						7.5	8.2
NNE	.6	1.0	1.2	.2								3.0	6.6
NE		.1	.3	.2								.7	8.8
ENE		.3		.2								.6	8.4
E	.1	.3	.4									.9	6.8
ESE	.2	.4	.2	.1								1.0	6.3
SE	.3	.3	.2									.9	4.9
SSE	.8	1.0	.9	1.4								4.1	8.1
S	.6	2.8	3.9	2.1	.3	.1						9.8	8.7
SSW	.6	4.6	4.2	2.7								12.0	7.9
SW	1.4	2.0	1.7	.4								5.6	5.9
WSW	1.1	1.9	1.3	.1								4.4	5.7
W	2.3	3.1	.7	.1	.1							6.3	4.6
WNW	1.7	2.9	1.1	.4								6.1	5.6
NW	1.1	1.6	1.6	.6								4.8	6.4
NNW	1.2	2.1	1.0	.2								4.6	5.5
VARBL													
CALM												27.8	
	12.8	27.0	21.2	10.2	.7	.2						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

899

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836
STATION

K I SAWYER AFB MI
STATION NAME

63-78
YEARS

SEP
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.7	3.9	2.1	.2	.1						8.9	8.8
NNE	.2	.8	2.1	.1								3.2	7.7
NE	.3	.2	.4									1.0	5.7
ENE	.3	.6	.3									1.2	5.7
E	.3	.6	.2									1.1	4.8
ESE	.2	.8	.3	.1								1.4	6.2
SE			.3									.3	8.3
SSE	.2	1.0	.9	1.								3.6	8.7
S	.8	1.6	4.0	2.7	.4	.1						9.6	9.8
SSW	1.7	4.3	4.6	1.9	.4							12.9	7.6
SW	1.2	2.4	1.9	.6	.1							6.2	6.6
WSW	.8	1.6	1.2	.3								3.9	6.1
W	1.7	3.2	1.9	.2								7.0	5.5
WNW	1.3	3.2	1.7	.1								6.3	5.6
NW	1.1	1.3	1.1	.7	.1							4.3	7.1
NNW	1.0	1.2	1.4	.4								4.1	6.6
VARBL													
CALM												24.9	
	12.1	24.4	26.3	10.7	1.3	.2						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94834
STATIONK I SAWYER AFB MI
STATION NAME69-78
YEARSSEP
MONTHALL WEATHER
CLASS0900-1100
HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.4	5.2	3.9	.3							12.9	9.1
NNE	1.2	1.6	2.6	1.0								6.3	7.2
NE	.3	.8	.6	.4								2.1	7.1
ENE	.8	.3	.2	.1								1.4	4.2
E	.2	.7	.6									1.4	6.0
ESE	.1	.8	.8	.4								2.1	7.9
SE	.2	.4	.2	.2								1.1	6.1
SSE	.2	.7	1.0	.7	.1	.1						2.8	9.4
S	.6	1.9	2.9	5.4	1.3	.1						12.2	11.1
SSW	1.1	1.8	4.0	5.1	.7							12.7	10.1
SW	.7	2.2	3.0	2.3	.4							8.7	9.1
WSW	.7	2.1	1.6	1.4	.4							6.2	8.8
W	.6	1.7	2.8	.6	.1							5.9	7.9
WNW	.9	1.7	2.9	.6	.3							6.3	7.7
NW	.6	.7	1.3	1.8	.4							4.8	9.9
NNW	.9	1.6	3.3	2.3	.1							8.2	8.8
VARBL													
CALM												4.8	
	10.0	21.2	32.9	26.6	4.3	.2						100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATIONK I SAWYER AFB MI
STATION NAME64-78
YEARSSEP
MONTHALL WINDS
CLASS1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.0	5.7	4.4	.9	.1						12.4	10.6
NNE	.6	2.8	5.8	1.6								10.7	8.2
NE	.4	1.4	2.1	.7								4.7	7.3
ENE	.3	1.7	.6	.1								2.7	5.8
E	.4	.9	.2									1.6	4.5
ESE	.3	.7	.8	.2								2.0	6.9
SE	.2	.3	.6	.1								1.2	6.6
SSE	.1	.9	.8	1.4	.1	.1						3.4	10.2
S	.2	1.2	4.0	5.2	2.6	.7						13.9	12.7
SSW	.6	1.4	3.8	5.4	1.3	.4						13.0	12.0
SW	.2	.7	2.6	1.8	.4	.1						5.8	10.3
WSW	.6	1.4	1.9	1.1	.3	.2						5.6	9.0
W	.6	1.0	3.4	1.4	.2							6.7	9.1
WNW	.1	1.1	2.2	1.9	.2							5.5	10.0
NW		.4	1.8	1.9	.2							4.3	10.6
NNW	.2	1.1	2.1	1.6	.2							5.2	9.6
VARBL													
CALM												1.3	
	5.2	18.1	38.2	28.9	6.6	1.7						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/PAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836 K I SA'YER AFB HI 69-78 SEP
STATION NAME YEARS MONTH
ALL WEATHER CLASS 1500-1700
HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.9	4.7	4.4	.4							11.9	10.0
NNE	.3	2.9	7.5	2.2	.1							13.0	8.6
NE	.2	3.2	5.3	.6								9.3	7.4
ENE	.2	2.1	1.2	.1								3.7	6.1
E		.8	.7	.1								1.6	6.9
ESE	.2	.3	.6	.2		.1						1.4	8.3
SE	.3	.8	.4	.3	.1							2.0	7.8
SSE	.1	.6	2.6	1.8	.4							5.5	10.7
S	.1	1.1	2.8	5.1	1.7	.6						11.3	12.9
SSW	.3	1.0	2.8	4.0	1.0	.1						9.2	11.7
SW	.1	.7	3.0	3.2	.6	.3						7.9	11.8
WSW	.1	.9	1.7	1.6		.2						4.4	10.3
W	.4	.6	1.8	1.2	.2							4.2	9.7
WNW	.2	.8	2.2	1.5	.8	.1						5.9	10.7
NW		.7	1.4	1.3	.2							3.7	10.5
NNW	.1	.6	2.0	1.2	.1							4.0	9.6
VARBL													
CALM												.9	
	3.3	18.8	40.6	29.3	5.7	1.4						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATION

K I SAWYER AFB HI
STATION NAME

59-78
YEARS

SEP
MONTH

ALL RE THE
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	3.1	3.2	2.7	.3							11.2	7.8
NNE	1.0	4.4	4.8	1.0								11.8	6.6
NE	1.9	4.3	1.3									7.6	4.7
ENE	1.4	1.3	.2									3.0	3.7
E	.9	.9	.2									2.0	4.0
ESE	.4	.7	.6	.1								1.8	5.3
SE	.7	1.0	.4	.4	.1							2.7	6.8
SSE	.3	1.6	2.2	1.2	.2							5.8	6.6
S	.2	2.0	4.0	0.6	.9	.3						14.0	11.3
SSW	.4	1.7	3.6	2.0	.1							7.3	9.1
SW	.8	1.9	2.0	1.1								5.8	7.5
WSW	.3	1.3	.8	.2	.1	.1						2.9	7.2
W	.6	1.2	1.1	.4		.1						3.4	7.5
WNW	.4	1.0	1.8	1.4								4.7	9.0
NW	1.0	1.7	2.0	.6								5.2	6.6
NNW	.3	1.0	1.1	.9								3.3	7.6
VARBL													
CALM												7.0	
	13.2	29.4	29.4	18.7	1.8	.5						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

899

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/4AC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835 STATION K I SAWYER AFB MI STATION NAME 57-78 YEARS SEP MONTH
ALL WEATHER CLASS 2100-2300 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.6	2.2	2.0								8.7	7.3
NNE	.6	.8	.9	.1	.2							2.6	7.0
NE	.6	1.3	.2	.3								2.4	5.7
ENE	1.0	.8	.2									2.0	3.9
E	.9	.3	.2	.2								1.7	5.1
ESE	1.0	.9										.9	3.5
SE	.2	1.0	1.3	.2								2.8	7.0
SSE	.4	1.3	1.0	1.0	.1							3.9	8.1
S	1.4	3.2	4.8	4.2	.8							14.4	9.0
SSW	1.4	2.7	4.0	2.2	.1							11.0	7.9
SW	.7	2.0	1.7	.6	.1							5.0	7.0
WSW	.2	1.6	.7	.1	.1							2.7	6.3
W	1.9	2.2	1.0	.3	.1							5.6	5.4
WNW	1.7	1.3	.9	.3								4.2	5.2
NW	.9	2.1	1.1	.4								4.6	6.0
NNW	.4	1.3	1.3	.4								3.6	6.6
VARBL													
CALM												23.1	
	15.2	25.4	22.1	12.6	1.6							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94805 K I SAWYER AFB MI 57-78 SEP
STATION STATION NAME YEARS NORTH
ALL WEATHER CLASS ALL
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.1	3.7	2.8	.3	.1						10.1	8.8
NNE	.6	1.9	3.1	.8	.0							6.5	7.6
NE	.5	1.6	1.3	.3								3.8	6.4
ENE	.5	.9	.4	.1								1.9	5.1
E	.4	.6	.4	.1								1.4	5.5
ESE	.3	.6	.4	.2		.1						1.6	6.4
SE	.3	.6	.5	.2	.0							1.6	5.9
SSE	.3	1.0	1.3	1.3	.1	.1						4.1	9.1
S	.7	2.1	3.9	4.2	1.1	.7						17.2	15.5
SSW	1.1	2.6	3.9	3.2	.5	.1						11.3	9.1
SW	.8	1.8	2.2	1.3	.2	.1						6.4	8.2
WSW	.6	1.6	1.3	.7	.1	.1						4.3	7.6
W	1.3	1.9	1.7	.6	.1	.1						5.6	6.6
WNW	1.0	1.7	1.7	.9	.2	.0						5.4	7.5
NW	.8	1.4	1.4	.9	.1							4.6	7.6
NNW	.7	1.3	1.7	.9	.1							4.6	7.7
VARBL													
CALM												14.6	
	11.1	23.7	28.9	18.3	2.8	.6						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 7197

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94834
STATION

K I SAWYER AFB MI
STATION NAME

49-78
YEARS

0000-0200
MONTH

ALL WEATHER
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.4	2.7	1.5	.3	.1						7.7	8.7
NNE	.3	.5	1.8	.4	.1							3.2	8.2
NE	.5	.3	.6	.5								2.0	7.7
ENE	.2	.4		.1								.8	5.4
E	.5	.1	.1									.8	7.1
ESE	.1	.4	.3	.1								1.0	6.2
SE		.1	.2	.8								1.1	11.5
SSE		.3	.9	.2								1.4	8.6
S	2.2	2.8	3.9	4.4	1.0	.2						14.4	9.4
SSW	2.9	6.0	5.8	3.3	.6	.3						19.1	8.0
SW	.6	2.6	1.7	1.9		.2						6.1	7.7
WSW	1.0	1.1	.3	.3								2.7	5.5
W	1.1	2.8	1.1	.3	.2							5.5	6.1
WNW	1.9	2.3	1.4	.6								6.4	6.0
NW	1.5	2.3	1.6	.8		.1						6.2	6.5
NNW	1.3	1.5	.7	1.0								4.6	6.5
VARB													
CALM												17.5	
	15.4	25.0	23.4	15.5	2.3	1.0						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

928

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATION

K I SA-YER AFB MI
STATION NAME

69-78
YEAR

UCT
MONTH

ALL WFTHE
CLASS

0300-0500
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.9	2.3	.6	.6	.1						6.6	8.2
NNE	.4	.5	1.5	.5	.1							3.2	7.8
NE	.1	.5	.9	.4	.1							2.0	9.1
ENE	.1	.3		.3								.8	7.6
E	.1	.1	.2									.4	6.0
ESE	.2	.4	.4									1.1	5.6
SE	.1	.2	.1	.3	.2							1.0	10.6
SSE		.4	.8	.4	.1							1.7	10.0
S	1.3	2.4	4.3	4.6	.8	.1						13.5	9.6
SSW	2.2	5.2	5.0	2.9	1.1	.2						16.5	8.2
SW	.6	1.8	2.4	.4	.3							5.6	7.7
WSW	.6	2.0	.6	.3	.2							3.9	6.6
W	3.1	2.6	1.2	.1	.1							7.1	4.4
WNW	1.7	2.0	1.3	.9								5.9	6.0
NW	1.4	2.2	1.8	.6								5.0	6.4
NNW	1.0	2.6	1.8	.4	.2							6.0	6.7
VARBL													
CALM												18.7	
	14.0	25.4	24.5	13.0	3.9	.4						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94835
STATION

K I SA-YER AFO KI
STATION NAME

59-78
YEAR

LY
MONTH

ALL WEATHER
CLIM

0000-0000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	1.4	2.9	1.0	1.0							7.7	6.7
NNE	.3	.5	2.0	.3	.1	.1						3.4	5.7
NE	.3	.8	.6	.4								2.2	7.1
ENE	.2	.1		.3								.6	5.5
E	.3	.1	.3									.8	5.3
ESE		.1	.3	.1								.5	3.6
SE		.3	.1	.2	.3							1.0	11.4
SSE	.2	.3	.4	1.0	.1							2.2	9.5
S	1.4	2.4	4.0	4.8	.5	.1						13.2	9.3
SSW	3.2	5.1	5.4	3.8	.8	.3						18.5	8.4
SW	1.2	1.1	1.8	1.1	.1	.1						5.4	7.6
WSW	.9	1.0	.8	.5	.3							3.4	7.6
W	2.0	3.1	1.0	.4								6.6	5.0
WNW	1.5	2.3	1.2	.5								5.5	5.6
NW	1.6	1.3	1.2	1.0								5.1	6.2
NNW	1.6	1.9	1.6	.5	.1							5.8	6.2
VARBL													
CALM												18.2	
	15.6	21.7	22.7	16.9	3.3	.6						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATIONK I SAWYER AFB MI
STATION NAME49-78
YEARSJUL
MONTHALL WEATHER
CLASS0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	2.3	2.6	3.4	1.2	.1						10.6	10.3
NNE	.8	1.3	2.2	1.1	.2							5.5	8.3
NE	.6	.4	1.2	1.0								3.2	8.3
ENE	.1	.3	.5									1.0	6.9
E	.3	.3	.3									1.0	4.7
ESE	.6	.3	.1	.1								1.2	4.7
SE		.6	.3	.3	.3							1.6	10.5
SSE	.3	.3	1.6	1.0	.2							3.4	9.8
S	.9	2.2	4.1	7.0	.4	.3						14.8	10.7
SSW	1.0	2.3	4.3	4.5	1.8	.3						14.2	10.8
SW	1.0	1.1	2.9	3.1	.5	.2						8.8	10.1
WSW	1.0	1.0	1.8	.6	.1							4.5	7.2
W	1.6	2.6	2.7	1.7	.1							8.7	7.4
WNW	.5	1.3	1.5	1.1	.2							4.6	8.7
NW	.2	1.1	1.7	1.7	.2							4.9	9.6
NNW	.8	1.2	2.4	1.5	.2							6.0	8.9
VARBL													
CALM												5.8	
	10.5	18.5	30.4	28.2	5.6	1.0						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836 STATION K I SAWYER AFB MI 67-78 YEARS GCT NORTH
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.9	3.4	4.7	1.0	.1						11.7	10.8
NNE	1.0	1.6	2.7	1.6	.6	.2						7.6	9.3
NE	.4	1.0	1.4	.6	.1							3.5	8.4
ENE	.2	1.2	.3									1.7	5.0
E	.8	.4										1.2	3.1
ESE	.2	.6	.2									1.1	5.1
SE	.1	.3		.5	.1							1.1	10.4
SSE	.8	.9	1.3	1.6	.3							4.8	9.4
S	.6	1.5	4.6	8.1	2.2	.8	.1					17.8	12.4
SSW	.3	1.2	3.3	5.6	2.4	.6						13.4	12.9
SW	.1	1.1	1.9	1.7	.6							5.5	10.4
WSW		.9	2.3	2.3	.1	.1						5.6	10.9
W	.3	1.3	2.0	2.0	.3							6.0	9.7
WNW	.1	.9	1.9	2.4	.3	.1						5.7	10.7
NW	.4	.8	1.9	2.2	.3	.2						5.8	10.9
NNW	.4	.8	1.7	1.6	.5							5.1	10.2
VARBL													
CALM												2.3	
	6.3	16.2	29.0	34.9	8.9	2.2	.1					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836 STATION K I SAWYER AFB HI STATION NAME 64-78 YEARS MONTH JCT 1500-1700 HOURS (L S T.)
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3	3.1	3.4	.8							9.3	10.2
NNE	.4	1.5	5.3	2.9	.1							10.2	9.3
NE	1.1	1.3	3.2	1.0								6.6	7.4
ENE	.4	.6	.6									1.7	5.3
E	.5	.3		.1								1.0	4.1
ESE	.2	.2	.1									.5	4.8
SE		.5	.8	.2								1.5	7.2
SSE	.4	2.0	1.8	2.0	.2	.1	.1					6.8	7.6
S	.6	.9	4.6	9.3	2.3	.9	.1					18.6	12.9
SSW	.3	.6	2.0	5.1	1.7	.3						10.1	13.3
SW	.2	1.1	2.9	2.3								6.5	9.6
WSW	.1	1.0	1.4	1.4	.3							4.2	10.4
W	.5	1.1	1.4	2.3	.1							5.4	9.1
WNW	.1	.8	1.4	1.3	.6	.1	.1					4.4	11.3
NW	.1	1.1	1.7	2.3	.3	.1						5.6	10.3
NNW	.1	.5	1.4	3.3	.4							5.8	11.7
VARBL													
CALM												1.8	
	5.9	14.9	31.9	36.8	6.9	1.5	.3					100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 929

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836 K I SAWYER AFB MI

59-78

UCT

STATION

STATION NAME

YEARS

NORTH

ALL WEATHER

CLASS

1800-2000

HOURES (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.8	2.3	2.3								7.9	7.8
NNE	.8	1.9	2.9	1.2								6.8	7.9
NE	1.5	2.0	1.8	.3								5.7	5.8
ENE	1.1	.5	.2	.1								1.9	3.9
E	.9	.9	.2	.1								2.0	4.6
ESE	.3	.6	.1									1.1	4.5
SE	.5	.6	.2	.2								1.6	5.7
SSE	.4	2.4	2.5	1.2	.1	.1						6.7	7.8
S	.5	3.8	5.0	7.9	2.3	.3						19.7	11.1
SSW	.9	1.9	3.4	3.3	.3							9.9	9.4
SW	.8	1.5	1.0	.8	.1							4.1	7.1
WSW	.3	1.3	1.1	.3								3.0	6.9
W	1.2	1.1	1.5	.5								4.3	6.3
WNW	.6	1.3	2.2	.1	.1	.1						4.4	7.5
NW	.2	1.2	1.5	1.1	.1							4.1	8.8
NNW	1.1	2.4	2.4	1.7	.5	.1						8.2	8.3
VARBL													
CALM												8.6	
	12.6	25.3	28.2	21.1	3.6	.6						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

929

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/1AC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATIONK I SAWYER AFB MI
STATION NAME69-78
TEMPOCT
MONTHALL WEATHER
CLASS2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	1.6	1.6	1.9	.4							7.2	8.3
NNE	.6	1.3	1.9	.5								4.4	7.1
NE	.4	.8	.2	.6	.1							2.2	8.5
ENE	.1	.1	.2	.2								.6	8.0
E	.6	.4	.2									1.3	4.4
ESE		.3	.2									.5	6.0
SE	.3	.6	.5	.3								1.8	6.9
SSE	1.0	1.0	.6	.4	.1	.2						3.3	7.9
S	1.1	3.9	4.8	6.3	.5	.3						17.0	10.0
SSW	2.0	3.5	5.9	3.9	.5	.2						16.1	8.5
SW	1.1	2.2	2.0	1.5								6.8	7.4
WSW	1.2	1.3	.4	.1								3.0	4.9
W	.4	2.7	.9	.5		.1						4.6	6.6
WNW	1.0	1.6	1.4	.5								4.5	6.1
NW	.5	2.3	1.5	.6		.1						5.1	7.4
NNW	.4	2.3	1.7	1.6	.1							6.1	8.1
VARBL													
CALM												15.4	
	12.5	25.8	24.3	19.2	1.8	1.0						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

930

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94835 K I SAWYER AFB MI 49-78 OCT
STATION STATION NAME YEARS MONTH
ALL WEATHER ALL
CLASS HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.7	2.6	2.5	.7	.1						8.5	9.4
NNE	.6	1.2	2.5	1.1	.2	.0						5.6	8.5
NE	.6	.9	1.3	.6	.0							3.4	7.5
ENE	.3	.5	.2	.1								1.1	5.7
E	.5	.3	.2	.0								1.0	4.3
ESE	.2	.4	.2	.0								.9	5.5
SE	.1	.4	.3	.4	.1							1.3	8.9
SSE	.4	1.0	1.2	1.0	.1	.1	.0					3.8	9.0
S	1.1	2.5	4.4	6.6	1.2	.4	.0					16.1	10.8
SSW	1.6	3.2	4.4	4.0	1.2	.3						14.7	9.6
SW	.7	1.5	2.1	1.5	.2	.1						6.1	8.6
WSW	.6	1.2	1.1	.7	.1	.0						3.8	7.9
W	1.3	2.2	1.5	1.0	.1	.0						6.0	6.8
WNW	.9	1.5	1.5	.9	.2	.0	.0					5.2	7.6
NW	.8	1.5	1.6	1.3	.1	.1						5.4	8.2
NNW	.8	1.6	1.7	1.5	.3	.0						6.0	8.3
VARBL													
CALM												11.0	
	11.6	21.6	26.9	23.2	4.5	1.0	.1					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 7435

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/AFAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836 K I SA 'YER AFB MI 69-78

STATION STATION NAME YEARS MONTH

ALL WEATHER

CLASS

CONDITION

0000-0200

HOURLS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.0	2.7	2.4	.3	.0						7.2	11.8
NNE	.2	1.0	2.1	1.8	.4	.1						5.7	10.3
NE	.4	.4	.8	.7	.2							2.1	8.1
ENE		.3	.6	.1								1.0	7.6
E	.2	.4	.4									1.1	6.0
ESE	.6	.4	.1									1.1	3.6
SE	.3	.9	.7	.1								2.0	5.9
SSE	.7	.8	1.6	.2	.1							3.3	7.2
S	1.1	2.0	3.6	2.2	.9							9.8	9.0
SSW	1.8	3.7	3.3	1.7	.4							10.9	7.4
SW	1.1	2.0	.7	1.2	.2	.2						5.4	7.7
WSW	1.6	2.7	1.0	.3								5.6	5.4
W	1.9	5.4	3.7	.4								11.4	5.8
WNW	.8	2.9	3.2	.7								7.6	6.6
NW	1.1	1.7	2.4	.8	.3							6.3	7.6
NNW	.3	1.4	2.6	1.2	.1	.1						5.8	8.9
VARBL													
CALM												13.7	
	12.1	27.1	29.3	13.4	3.1	1.2						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835
STATION

K I SANYER AFB MI
STATION NAME

59-78
YEARS

NO.
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.7	3.6	3.0	.4	.6						9.4	10.9
NNE	.1	.7	.9	1.4	.7							3.8	11.5
NE	.2	.2	1.0	.8	.4							2.7	10.7
ENE	.2	.4	.2	.3								1.2	6.9
E	.3	.1	.1									.6	4.4
ESE	.4	.6	.1	.1								1.2	5.0
SE	.2	.4	.7	.4								1.8	8.3
SSE	.3	1.2	.7	.3								2.6	6.4
S	1.3	1.6	2.1	1.9	1.3	.1						8.3	10.0
SSW	1.8	5.4	3.7	1.6	.4	.1						13.0	7.1
SW	1.4	1.3	1.7	.6			.1					5.1	6.8
WSW	1.2	2.6	1.1		.1		.1					5.1	5.9
W	2.2	4.9	2.9	.6								10.6	5.8
WNW	1.2	3.3	2.1	.6								7.2	6.3
NW	.3	2.4	2.9	.8	.3							6.8	7.9
NNW		1.7	3.0	.9	.2							5.8	8.7
VARBL													
CALM												14.9	
	11.7	28.6	26.7	13.2	4.0	.8	.2					100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATION

K I SAWYER AFB MI
STATION NAME

59-78
YEARS

NOV
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.7	3.6	2.6	.9	.4						8.6	11.4
NNE	.2	1.1	1.0	1.0	.6	.2						4.9	11.3
NE	.6	1.4	.4	.7	.3							3.4	7.6
ENE	.2	.3	.3	.1								1.0	6.6
E	.3	.7										1.0	3.9
ESE	.2	.2	.2									.7	4.7
SE	.1	.4	.4	.0								1.6	8.8
SSE	.3	.7	.8	.8	.1	.1						2.8	9.2
S	1.0	3.4	1.9	2.0	.2	.3						8.9	8.3
SSW	2.9	4.4	2.1	2.2	.8	.1						12.6	7.3
SW	1.2	2.1	1.4	.9								5.7	6.3
WSW	.8	3.1	1.3	.2	.3							5.8	6.4
W	1.4	4.4	3.1	.3								9.3	5.9
WNW	.9	2.2	2.0	.2								5.3	6.4
NW	.8	2.2	2.7	.9	.3							6.9	7.7
NNW	.4	1.2	2.1	1.2	.3	.1						5.4	9.3
VARBL													
CALM												16.2	
	11.9	28.8	23.4	14.4	3.9	1.3						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/AC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 94835 STATION NAME K I SAWYER AFB MI YEARS 69-78 MONTH NOV NORTH
CLASS ALL WEATHER HOURS 0900-1100 (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.0	3.6	2.9	.9	.2						8.9	11.1
NNE	.6	.6	1.7	1.6	.3	.1						5.0	10.1
NE	.2	1.2	.6	.9	.1							3.2	8.8
ENE	.7	.2	.9									1.8	5.8
E	1.0	.7	.4									2.1	4.6
ESE	.2	.6										.8	4.3
SE			.9	.2								1.1	9.5
SSE	.6	.8	.6	1.0	.2							3.1	9.1
S	.4	2.3	2.8	2.1	.9	.5						8.9	10.2
SSW	1.2	2.9	5.0	2.9	.8							12.8	8.8
SW	1.3	1.6	2.6	1.2	.2							6.9	7.7
WSW	.7	1.9	2.2	.6		.1						5.5	7.1
W	1.8	3.1	3.9	.9	.3							10.0	7.1
WNW	.6	1.6	3.5	1.2	.3							7.3	8.3
NW	.4	2.0	4.0	1.4	.2							8.1	8.4
NNW		1.0	3.2	2.0	.3	.2						6.8	10.7
VARBL													
CALM												7.6	
	10.2	21.4	36.0	19.2	4.7	1.0						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 898

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATIONK I SAYFER AFB MI
STATION NAME57-76
YEARSNOV
MONTHALL WEATHER
CLASS1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.4	3.2	4.2	.7	.3						10.8	10.9
NNE	.1	1.0	2.0	2.3	.2	.1						5.8	10.7
NE	.1	.4	1.2	1.0	.2							3.0	10.2
ENE	.4	.7	.3	.1								1.6	5.2
E	.4	.9	.4									1.8	5.3
ESE	.1	.4	.1									.7	5.3
SE		.4	.6									1.0	7.0
SSE	.2	1.0	.9	.7	.6							3.3	10.1
S	1.3	2.7	3.6	3.2	1.6	.2	.1					12.7	10.1
SSW	.4	2.2	4.0	5.0	.7	.2						12.6	10.5
SW	.4	1.7	2.1	2.0	.1	.2						6.6	9.6
WSW	.2	1.0	2.2	1.0	.3							4.8	9.2
W	1.0	1.9	4.2	1.7	.2	.2						9.2	8.5
WNW	.6	2.1	2.4	1.7	.2							7.0	9.0
NW	.2	.9	3.2	2.6	.6	.1						7.6	10.3
NNW	.2	1.3	3.0	2.7	.8	.1						8.2	10.8
VARBL													
CALM												3.6	
	6.9	20.1	33.6	28.1	6.1	1.6	.1					100.0	9.5

TOTAL NUMBER OF OBSERVATIONS

900

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835
STATION

K I SAWYER AFB HI
STATION NAME

69-78
YEARS

NDV
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.0	4.8	3.8	.8	.3						12.3	10.3
NNE	.3	1.7	1.4	2.6	.6	.1	.1					6.8	10.6
NE	.2	1.6	1.0	1.1	.1							4.0	8.1
ENE	.5	.6		.1								1.2	4.4
E	.3	.9										1.2	4.0
ESE	.0	.2										1.0	2.3
SE		.2	.4	.2								.9	8.6
SSE	1.4	1.6	1.3	.1								4.5	5.6
S	.8	3.3	4.0	3.1	1.4	.2	.2					13.2	10.1
SSW	.7	2.2	3.5	3.1	.3							9.8	9.3
SW	.7	1.7	1.8	1.1	.1	.1	.1					5.6	8.8
WSW	.3	1.9	2.5	1.3								6.0	8.1
W	.7	2.5	3.1	1.8	.3							8.4	8.6
WNW	.4	.8	3.1	1.3	.3	.1						6.1	9.7
NW	.2	1.8	1.9	2.8	.6							7.2	10.0
NNW	.2	1.3	3.0	2.6	.2							7.4	9.6
VARBL													
CALM												4.5	
	8.2	24.2	31.9	25.1	4.8	.9	.4					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

897

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94896
STATIONK I SAWYER AFB MI
STATION NAME69-78
YEARSNOV
MONTHALL WEATHER
CLASS1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.9	2.6	2.2	.7	.4	.2					9.2	10.0
NNE	.6	1.7	1.3	2.2	.6	.1						6.5	10.2
NE	.4	1.0	.4	1.0	.1							3.0	8.2
ENE	.3	.4	.1									.9	4.3
E	.7	.8										1.5	3.3
ESE	.7	.9	.2									1.8	3.8
SE	.2	.8	1.1	.2								2.3	6.8
SSE	.6	1.7	.9	.2	.1							3.5	6.3
S	.7	3.7	5.0	2.3	.6	.4	.1					12.8	9.2
SSW	2.0	1.8	3.6	1.6	.3	.2						9.5	7.8
SW	.8	1.8	1.5	.8								4.8	6.9
WSW	1.2	.7	1.3	.3								4.0	6.8
W	1.1	2.0	3.3	1.3								7.8	7.5
WNW	1.1	2.0	2.6	2.1	.4							8.3	8.5
NW	1.1	2.6	2.6	1.5	.2							7.9	7.6
NNW	.7	1.7	1.9	1.5								5.7	8.0
VARBL													
CALM												10.6	
	13.2	25.3	28.5	17.7	3.0	1.2	.3					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 896

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94834
STATION

K I SAWYER AFB HI
STATION NAME

49-78
YEARS

NOV
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-5	7-10	11-16	17-21	22-27	28-33	34-43	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	1.2	2.0	2.5	.6	.4	.2					7.4	11.7
NNE	.6	.9	1.7	1.2	.2	.4						5.0	10.5
NE		.7	.9	.6	.2							2.3	10.6
ENE	.6	1.0	.2									1.8	4.5
E	.1	.8										.9	4.8
ESE	.1	.6	.4									1.1	5.8
SE	.3	.8	.7	.1								1.9	5.7
SSE	.6	1.3	1.3	.3								3.6	5.5
S	.6	2.2	3.2	1.7	.6							8.2	8.7
SSW	1.1	4.3	4.1	2.0	.9	.3						12.8	8.6
SW	1.7	2.2	1.1	.8	.1	.1						6.0	6.6
WSW	1.1	1.7	.9	1.0	.2							4.9	7.2
W	1.3	3.8	4.6	1.0								10.7	6.9
WNW	1.3	2.8	2.7	.4	.3							7.6	5.8
NW	1.0	2.6	2.7	1.8	.1							8.1	7.9
NNW	.9	1.4	2.2	1.4								6.0	7.7
VARBL													
CALM												11.6	
	11.7	28.3	28.8	14.8	3.2	1.3	.2					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 897

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94830
STATION

K I SAWYER AFB MI
STATION NAME

69-78
YEAR

NOV
MONTH

ALL WFTHE
CLASS

ALL
HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.4	3.2	2.9	.7	.4	.1					9.2	10.9
NNE	.3	1.1	1.2	1.9	.4	.2	.0					5.4	10.6
NE	.3	.9	.8	.5	.2							3.0	8.9
ENE	.4	.5	.3	.1								1.3	5.6
E	.4	.7	.2									1.3	4.5
ESE	.4	.5	.2	.0								1.0	4.3
SE	.2	.5	.7	.2								1.6	7.3
SSE	.6	1.1	1.0	.5	.1	.1						3.3	7.4
S	.9	2.7	3.3	2.3	.9	.2	.1					10.4	9.5
SSW	1.5	3.4	3.7	2.3	.6	.1						11.7	8.4
SW	1.1	1.8	1.6	1.1	.1	.1	.0					5.8	7.6
WSW	.9	1.9	1.6	.7	.1	.0	.0					5.2	7.0
W	1.4	3.5	3.6	1.0	.1	.0						9.7	6.9
WNW	.9	2.2	2.7	1.0	.2	.0						7.1	7.7
NW	.7	2.0	2.8	1.6	.3	.0						7.4	8.4
NNW	.4	1.4	2.6	1.7	.3	.1						6.4	9.3
VARBL													
CALM												10.3	
	10.8	25.5	29.8	18.3	4.1	1.2	.2					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 7188

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

9483h
STATION

K I SAWYER AFB MI
STATION NAME

68-77
YEARS

DEC
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.6	1.6	3.1	1.3	.0	.1					8.1	13.1
NNE	.3	.8	.2	1.4	.2	.1						3.0	10.8
NE	.3	1.2	.1	.3								1.9	6.2
ENE	.2	1.1		.2								1.5	5.6
E	.2	1.3	.9									2.4	5.5
ESE	.4	.5	.5	.5								2.0	7.4
SE	.4	.4	.6	.3								1.8	7.1
SSE	.1	.4	.5	.4	.2							1.7	9.9
S	1.0	1.5	2.3	1.7	1.0	.1						7.6	9.5
SSW	1.3	2.2	2.5	2.6	.4	.2						10.2	8.7
SW	1.2	2.7	3.2	.8	.2							8.1	7.0
WSW	1.2	2.6	1.0									4.7	4.8
W	1.8	3.7	2.5	1.6	.1							9.7	6.9
WNW	1.2	2.3	2.5	1.3								7.2	7.2
NW	1.0	2.0	4.0	1.9	.3							9.3	8.7
NNW	.4	.3	2.2	1.9	.9	.1						5.8	11.7
VARBL													
CALM												14.9	
	11.7	24.8	24.5	18.2	4.6	1.2	.1					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/PAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION 94830 K I SA-YER AFB HI STATION NAME YEARS 56-77 MONTH DEC
CLASS ALL WEATHER
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.1	1.2	3.1	1.7	.5						8.8	12.5
NNE	.9	.3	.4	.6	.2							2.5	8.1
NE	.4	.8	.5	.2	.2							2.2	7.6
ENE	.8	1.5	.2									2.5	4.3
E	.6	.9	.8	.1								2.4	9.5
ESE	.1	.2	.6	.3								1.3	2.1
SE	.4	.4	.3	.2	.1							1.5	7.1
SSE	.2	.2	.6	.2	.2	.1						1.6	10.7
S	.4	2.5	3.1	2.3	.5							8.8	9.0
SSW	1.8	1.9	3.4	2.8	.4	.2						10.6	8.4
SW	1.2	1.6	2.2	.6								5.6	6.6
WSW	1.2	3.1	.8	.2								5.3	5.2
W	1.1	2.8	2.6	1.5	.5							8.5	7.9
WNW	1.0	2.7	3.4	1.2	.1							8.4	7.3
NW	.9	1.6	2.6	1.4	.1							6.8	7.9
NNW	.5	1.0	2.5	2.0	1.1							7.1	10.5
VARBL													
CALM												16.2	
	12.5	22.6	25.5	16.9	5.3	1.1						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836
STATION

K I SAWYER AFB HI
STATION NAME

64-77
YEARS

DEC
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.0	1.5	2.6	2.3	.4						8.4	13.2
NNE	.2	.8	.5	1.1	.3							2.9	10.2
NE	.3	1.1	1.0	.4	.1							2.9	7.5
ENE	.9	1.3	.5	.3								3.0	5.6
E	.3	1.3	.2									1.8	4.8
ESE	.5	.9	.6	.2								2.3	6.1
SE	.1	.1	.4	.1								.8	8.0
SSE	.2	.4	.3	.5	.2							1.7	9.6
S	1.6	1.0	2.8	3.5	.8							9.7	9.8
SSW	1.8	2.2	3.7	2.4	.2							10.2	7.8
SW	1.0	1.2	1.6	.8								4.5	7.0
WSW	1.4	1.7	1.4	.4	.1							5.1	6.1
W	1.6	3.1	3.1	1.1	.1	.2						9.2	7.2
WNW	1.3	3.0	2.7	.5	.3							7.8	7.0
NW	1.4	2.4	2.3	1.8	.1	.2						8.2	7.9
NNW	.9	.9	1.3	2.2	.4	.1						5.7	9.8
VARBL													
CALM												15.8	
	14.0	22.2	24.0	18.2	4.9	1.0						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836 STATION K I SA-YER AFB MI 50-77 YEARS UEC NORTH
ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.3	1.9	3.4	1.2	.5						8.9	11.8
NNE	.2	.8	.3	1.8	.5	.1						3.8	11.5
NE	.1	.8	.8	.9	.1							2.6	8.9
ENE	.2	1.6	.4									2.3	5.4
E	.2	1.1	1.1									2.4	6.4
ESE	.4	.4	.5	.3								1.7	6.8
SE	.3	.5	.4									1.3	5.9
SSE	.2	.5	.2	.1	.2							1.3	8.3
S	.8	2.2	1.6	2.8	.8							8.1	9.7
SSW	1.5	3.6	3.4	4.2	.9							13.6	9.2
SW	.9	2.0	1.4	1.0	.3							5.6	7.6
WSW	1.5	1.4	1.2	.4	.1							4.6	5.9
W	1.8	3.6	2.7	2.2	.2							10.4	7.3
WW	1.2	2.3	2.4	1.7	.2	.1						7.9	8.0
NW	.9	1.5	2.6	1.9								6.9	8.5
NNW	.6	.8	1.8	2.0	.6	.3						6.2	11.1
VARBL													
CALM												12.5	
	11.4	24.2	22.8	22.8	5.2	1.1						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 929

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/VAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835
STATION

K I SAWYER AFB HI
STATION NAME

50-77
YEARS

DEC
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	3.0	2.9	3.9	1.3	.2						11.9	10.4
NNE	.4	.8	1.5	1.6	.5	.1						5.0	10.4
NE	.6	.8	1.0	.4								2.8	6.7
ENE	.3	.9	1.0									2.2	6.2
E	.4	1.0	.5	.8								2.7	7.8
ESE	.2	.3	.5	.2								1.3	7.2
SE		1.0	1.0	.2								2.2	7.3
SSE	.5	.5	.6									1.7	5.6
S	1.2	2.8	2.2	3.8	1.2	.2						11.3	9.9
SSW	.5	2.2	1.9	4.2	1.5	.1						10.4	11.0
SW	.3	1.4	2.7	1.3	.4							6.1	9.4
WSW	.6	1.5	1.9	1.0	.1	.2						5.4	8.3
W	.6	2.2	2.6	.8	.3	.1						6.6	8.3
WNW	.5	1.6	2.9	1.3	.6	.4						7.4	10.2
NW	.3	1.2	2.3	2.8	.5	.2						7.3	10.7
NNW	.5	1.1	2.4	3.6	1.4							8.9	11.4
VARBL													
CALM												6.8	
	7.9	22.1	27.9	25.7	8.0	1.7						100.0	9.0

TOTAL NUMBER OF OBSERVATIONS

929

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94856
STATIONK I SAWYER AFB MI
STATION NAME58-77
YEARSDEC
MONTHALL WEATHER
CLASS1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	2.7	4.2	4.5	1.1							14.1	9.6
NNE	.3	1.2	1.2	1.4								4.1	8.9
NE	.6	1.0	.9	.6								3.1	7.1
ENE	.5	.8	.6	.2								2.2	6.0
E	.5	1.0	.5	.3								2.4	6.2
ESE	.2	.5	.6	.1								1.5	6.4
SE	.4	1.0	.6	.1								2.2	6.0
SSE	.9	1.1	.8	.2								2.9	5.5
S	1.4	2.7	2.8	3.2	1.0	.2						11.3	9.6
SSW	.6	1.6	3.3	4.7	.4	.2						11.0	10.5
SW	.4	1.3	2.5	.6	.3							5.3	8.4
WSW	.8	.6	.8	.6	.2							3.0	7.9
W	1.5	1.6	1.8	.8	.5							6.2	7.5
WNW	.8	1.9	1.9	1.7	.2	.2						6.8	9.0
NW	.5	2.3	2.4	1.7	.4	.1						7.4	9.1
NNW	.2	1.1	2.9	3.8	1.1	.1						9.1	11.4
VALE													
CALM												7.5	
	11.4	22.3	27.8	24.8	5.3	.9						100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94836 K I SA-YER AFB MI

60-77

DEC

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.9	2.3	2.6	1.6	.4	.1					10.0	11.3
NNE	.8	.6	1.1	.3	.1	.1						3.0	7.4
NE	.3	1.1	.4	1.1	.1							3.0	8.6
ENE	.3	.6	.3	.1								1.4	5.5
E	.6	1.0	.4	.1								2.3	5.0
ESE	.6	.3	.5									1.5	5.4
SE	.6	.6	.2	.3	.1							1.9	6.6
SSE	.9	1.4	1.1	.1								3.4	5.6
S	.8	2.0	3.4	2.6	1.1	.4						10.5	10.3
SSW	1.0	2.7	4.2	2.0	.5	.1						10.5	8.5
SW	.6	1.3	1.2	1.1	.1							4.3	8.2
WSW	.8	1.1	1.1	.4	.1							3.4	7.1
W	1.7	2.5	1.5	.8								6.5	6.0
WNW	1.7	1.9	1.7	.5	.1							6.0	6.3
NW	1.6	1.9	1.8	1.7	.1							7.2	7.4
NNW	1.2	2.4	3.0	3.2	.1							9.9	8.8
VARBL													
CALM												15.1	
	14.5	23.4	24.3	17.4	4.1	1.1	.1					100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

930

2

GLOBAL CLIMATOLOGY SPANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836
STATION

K I SAWYER AFB MI
STATION NAME

5-77
YEARS

DEC
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	1.6	2.2	1.7	.4						7.3	12.5
NNE	.3	.6	1.0	.5	.5							3.0	10.0
NE	.1	.8	.9	.9								2.6	8.7
ENE	.5	.6	.5	.1								1.8	5.5
E	.4	.6	.4									1.5	5.4
ESE	.2	1.2	.4	.1								1.9	5.9
SE	.3	.4	.8	.2								1.7	7.1
SSE	.5	.5	.9	.6	.1							2.7	7.7
S	1.0	2.0	2.4	1.5	1.0	.3						8.2	9.7
SSW	1.1	4.2	3.7	2.4	.5	.3						12.2	8.5
SW	1.4	2.7	2.3	.4	.6	.2						7.6	7.8
WSW	1.3	1.8	1.1	1.0								5.2	6.5
W	1.4	3.3	3.4	1.1	.1							9.4	6.8
WNW	1.3	2.2	1.6	.2	.2							5.5	6.1
NW	1.1	1.5	3.0	1.8	.3	.1						7.3	9.0
NNW	.9	1.7	3.1	2.9								8.6	8.9
VARBL													
CALM												13.0	
	12.6	24.9	27.0	15.9	5.2	1.4						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94835
STATION

K I SAWYER AFB MI
STATION NAME

64-77
YEARS

DFC
BOTH

ALL WINDS
CLASS

ALL
HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-5	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.8	1.5	2.2	3.7	1.5	.4	.0					9.7	11.6
NNE	.4	.7	.8	1.1	.3	.1						3.4	9.8
NE	.4	.9	.7	.0	.1							2.6	7.7
ENE	.5	1.0	.5	.1								2.1	5.5
E	.4	1.0	.6	.2								2.2	5.9
ESE	.3	.6	.6	.2								1.7	6.6
SE	.3	.6	.6	.2	.0							1.7	6.8
SSE	.4	.6	.6	.3	.1	.1						2.1	7.4
S	1.0	2.1	2.6	2.7	.9	.2						9.4	9.7
SSW	1.2	2.7	3.3	2.2	.6	.1						11.1	9.1
SW	.9	1.8	2.1	.8	.3	.0						5.9	7.7
WSW	1.1	1.7	1.1	.5	.1	.0						4.6	6.4
W	1.5	2.8	2.5	1.2	.2	.0						8.3	7.2
WNW	1.1	2.2	2.4	1.1	.2	.1						7.1	7.7
NW	1.0	1.8	2.6	1.9	.2	.1						7.6	8.6
NNW	.7	1.1	2.4	2.7	.7	.1						7.7	10.4
VARBL													
CALM												12.7	
	12.0	23.3	25.5	20.0	5.3	1.7	.0					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

7437

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

94835 K I SAWYER AFB MI 1978

STATION STATION NAME YEARS

ALL WEATHER CLASS

ALL MONTH

ALL MOVES (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.1	3.4	3.7	1.1	.4	.0	.0	.0			12.0	10.3
NNE	.6	1.8	3.0	1.6	.2	.0	.0					7.5	8.8
NE	.5	1.3	1.6	.6	.1	.0						4.0	7.3
ENE	.5	.8	.5	.1								2.0	5.5
E	.5	.7	.4	.1	.0							1.8	5.4
ESE	.3	.5	.3	.1	.0	.0						1.2	5.7
SE	.2	.5	.6	.2	.0							1.5	7.0
SSE	.4	.9	1.2	.7	.1	.0	.0					3.4	8.2
S	.9	2.5	3.7	3.4	.7	.2	.0					11.4	9.7
SSW	1.2	2.8	3.4	2.5	.5	.1	.0	.0				10.5	8.8
SW	.8	1.5	1.8	1.0	.1	.0	.0					5.2	7.9
WSW	.8	1.3	1.3	.6	.1	.0	.0					4.1	7.2
W	1.3	2.0	1.9	.8	.1	.0	.0					6.1	6.8
WNW	.9	1.7	1.7	1.0	.1	.0	.0					5.4	7.5
NW	.7	1.3	1.6	1.2	.2	.0						5.0	8.4
NNW	.6	1.1	1.8	1.6	.4	.1	.0					5.6	9.5
VARBL													
CALM												13.2	
	11.7	22.8	28.2	19.4	3.8	.9	.1	.0	.0			100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

87582

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/VAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

94836
STATION

K I SAWYER AFB MI
STATION NAME

66-78
YEARS

ALL
MONTH

INSTRUMENT

ALL

HOURLS (L.S.T.)

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/ CIG 200 FT OR MORE

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	2.2	5.2	8.1	3.1	1.0	.0					20.2	12.4
NNE	.6	2.1	3.0	2.9	.6	.1	.0					9.4	9.8
NE	.6	1.3	1.2	1.1	.2							4.3	5.2
ENE	.5	1.0	.5	.2								2.3	5.9
E	.7	.9	.8	.3	.0							2.7	6.2
ESE	.5	.7	.8	.3	.0							2.2	6.7
SE	.3	.8	1.2	.5	.1							2.9	7.9
SSE	.4	1.3	1.8	1.4	.3	.0	.0					5.1	9.2
S	.8	2.3	4.4	4.7	1.4	.3	.0					13.9	10.6
SSW	.9	2.2	3.2	2.4	.5	.1	.0	.0				9.3	9.1
SW	.5	1.1	1.3	.6	.1	.1	.0					3.5	7.9
WSW	.5	.6	.7	.2	.0							2.0	6.2
W	.7	.8	.8	.4	.0	.0	.0					2.8	6.7
WNW	.5	.7	.9	.3	.1	.0						2.6	7.3
NW	.4	1.0	1.5	1.0	.2	.0						4.1	8.9
NNW	.4	.9	2.2	2.3	.9	.1	.0					6.7	11.2
VARBL													
CALM												6.1	
	8.9	19.9	29.4	26.5	7.3	1.8	.1	.0				100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 16447

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART D

CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 1800																
≥ 1500					91.0											92.6
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500										97.4						98.1
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0.
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0. From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

ADDITIONAL EXAMPLES

EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility ≥ 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

GLOBAL CLIMATOLOGY BRANCH
JSAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836
STATION

K I SAWYER AFB MI
STATION NAME

59-78
YEAR

JA
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING > 20000	34.5	35.5	35.8	35.9	36.2	36.2	36.7	36.9	37.1	37.1	37.1	37.1	37.1	37.1	37.2	37.4
IV 18000	35.3	36.5	36.9	37.0	37.3	37.3	37.8	38.1	38.3	38.3	38.3	38.3	38.3	38.3	38.4	38.6
IV 16000	35.6	36.9	37.3	37.4	37.7	37.7	38.3	38.5	38.7	38.7	38.7	38.7	38.7	38.7	38.8	39.0
IV 14000	35.6	36.9	37.3	37.4	37.7	37.7	38.3	38.5	38.7	38.7	38.7	38.7	38.7	38.7	38.8	39.0
IV 12000	35.9	37.2	37.7	38.0	38.3	38.3	38.8	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.4	39.6
IV 10000	36.3	37.6	38.2	38.4	38.7	38.7	39.2	39.5	39.7	39.7	39.7	39.7	39.7	39.7	39.8	40.0
IV 8000	37.0	38.3	38.8	39.0	39.6	39.6	40.1	40.3	40.5	40.5	40.5	40.5	40.5	40.5	40.6	40.9
IV 6000	37.6	38.9	39.5	39.7	40.2	40.2	40.8	41.0	41.2	41.2	41.2	41.2	41.2	41.2	41.3	41.5
IV 4000	38.6	40.0	40.6	41.0	41.5	41.5	42.0	42.3	42.5	42.5	42.5	42.5	42.5	42.5	42.6	42.8
IV 3000	39.1	40.5	41.2	41.5	42.0	42.0	42.6	42.8	43.0	43.0	43.0	43.0	43.0	43.0	43.1	43.3
IV 2000	40.1	41.5	42.2	42.6	43.1	43.1	43.7	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.2	44.4
IV 1800	41.9	43.3	44.0	44.4	45.1	45.1	45.6	45.8	46.0	46.0	46.0	46.0	46.0	46.0	46.1	46.3
IV 1600	43.1	44.5	45.2	45.6	46.3	46.3	46.9	47.1	47.3	47.3	47.3	47.3	47.3	47.3	47.4	47.6
IV 1400	44.7	46.5	47.2	47.6	48.6	48.7	49.2	49.5	49.8	49.8	49.9	49.9	49.9	49.9	50.0	50.2
IV 1200	45.3	47.1	48.0	48.5	49.7	49.8	50.3	50.5	50.9	50.9	51.0	51.0	51.0	51.0	51.1	51.3
IV 1000	47.6	50.1	51.1	51.8	53.2	53.3	54.2	54.6	54.9	54.9	55.1	55.1	55.1	55.1	55.2	55.4
IV 800	50.4	53.3	55.1	56.1	58.2	58.5	59.7	60.3	60.6	60.6	60.8	60.8	60.8	60.8	60.9	61.1
IV 600	53.7	57.2	59.4	60.8	63.2	63.7	65.3	66.1	66.7	66.8	66.9	66.9	66.9	66.9	67.0	67.2
IV 400	54.9	58.9	61.1	62.5	65.1	65.5	67.1	68.1	68.6	68.7	68.8	68.8	68.8	68.8	68.9	69.1
IV 300	57.7	63.1	65.5	67.2	70.2	70.9	73.0	74.5	75.3	75.7	75.9	75.9	75.9	75.9	76.0	76.2
IV 200	59.5	65.2	67.7	69.7	73.0	73.8	76.3	78.1	79.0	79.6	79.9	79.9	80.0	80.0	80.1	80.3
IV 100	60.1	66.2	69.1	71.1	74.7	75.6	78.6	80.6	82.4	83.2	83.9	83.9	84.0	84.0	84.1	84.3
IV 80	60.3	66.6	69.9	71.8	75.5	76.5	79.5	81.6	83.5	84.4	85.1	85.1	85.2	85.2	85.3	85.5
IV 60	61.8	68.4	71.7	73.8	77.5	78.6	81.6	83.8	86.5	87.4	88.1	88.1	88.2	88.2	88.3	88.5
IV 40	62.2	68.7	72.0	74.2	78.1	79.2	82.4	84.7	87.4	88.5	89.4	89.4	89.5	89.5	89.6	89.8
IV 30	62.2	68.9	72.3	74.6	78.8	80.0	83.2	85.7	88.4	89.5	90.3	90.3	90.4	90.4	90.5	90.8
IV 20	62.2	68.9	72.6	75.1	79.6	80.8	84.0	86.7	89.6	90.8	92.4	92.5	92.8	92.8	92.9	93.4
IV 10	62.2	69.0	72.8	75.4	79.9	81.3	84.5	87.3	90.8	92.4	94.1	94.2	94.7	94.7	94.8	95.4
IV 5	62.2	69.0	72.8	75.4	80.1	81.5	85.1	88.1	92.2	93.9	96.1	96.2	97.4	97.4	97.5	98.3
IV 2	62.2	69.0	72.8	75.4	80.2	81.6	85.2	88.2	92.4	94.3	96.6	96.7	98.0	98.0	98.1	98.9
IV 1	62.2	69.0	72.8	75.4	80.2	81.6	85.2	88.2	92.5	94.4	96.7	96.8	98.1	98.1	98.4	99.9
IV 0	62.2	69.0	72.8	75.4	80.2	81.6	85.2	88.2	92.5	94.4	96.7	96.8	98.1	98.1	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/AC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

9-74

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	VISIBILITY STATISTICS															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 0
NO CEILING ≥ 20000	32.5	34.8	34.9	35.1	35.2	35.5	35.6	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
IV 18000	33.0	35.4	35.5	35.6	35.7	36.0	36.7	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 16000	33.5	36.0	36.1	36.2	36.3	36.7	37.3	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
IV 14000	34.0	36.5	36.6	36.7	36.8	37.1	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 12000	34.2	36.7	36.8	36.9	37.0	37.3	38.0	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
IV 10000	35.5	38.1	38.2	38.3	38.4	38.7	39.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
IV 9000	35.5	38.1	38.2	38.3	38.4	38.7	39.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
IV 8000	35.8	38.5	38.6	38.7	38.8	39.1	39.8	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
IV 7000	36.5	39.5	39.6	39.7	39.8	40.1	40.8	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
IV 6000	36.9	39.9	40.0	40.1	40.2	40.5	41.2	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
IV 5000	38.4	41.9	42.0	42.2	42.3	42.6	43.2	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
IV 4500	39.6	43.1	43.3	43.5	43.7	44.0	44.6	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
IV 4000	41.0	44.8	45.1	45.4	45.5	45.8	46.5	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
IV 3500	42.2	46.2	46.6	46.9	47.0	47.3	48.0	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
IV 3000	45.6	50.2	50.5	50.9	51.0	51.3	52.0	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0
IV 2500	48.7	54.5	55.5	55.9	56.5	56.9	57.6	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2
IV 2000	53.1	59.1	60.3	61.2	62.3	62.9	64.1	65.6	65.7	65.8	66.0	66.0	66.0	66.0	66.0	66.0
IV 1800	54.5	61.1	62.4	63.2	64.5	65.2	66.5	68.1	68.2	68.3	68.5	68.5	68.5	68.5	68.5	68.5
IV 1500	57.1	64.8	66.3	67.2	69.1	69.8	72.3	73.9	74.1	74.4	74.6	74.6	74.6	74.6	74.6	74.6
IV 1200	58.8	66.8	68.6	69.6	72.0	72.8	75.7	77.5	77.7	78.2	78.4	78.4	78.4	78.4	78.4	78.4
IV 1000	60.3	68.4	70.5	71.8	74.5	75.3	78.5	81.0	81.3	82.0	82.3	82.3	82.3	82.3	82.3	82.3
IV 900	60.3	68.4	70.6	72.0	74.8	75.6	78.8	81.5	81.8	82.6	82.9	82.9	83.1	83.1	83.2	83.2
IV 800	60.5	69.0	71.3	72.7	75.6	76.3	79.6	82.5	83.2	84.1	84.5	84.5	84.7	84.7	84.8	84.8
IV 700	61.0	70.0	72.4	74.0	77.0	77.7	81.2	84.1	85.1	86.1	86.6	86.6	87.0	87.0	87.1	87.1
IV 600	61.1	70.2	72.9	74.5	77.5	78.5	82.0	85.5	86.6	88.0	88.4	88.4	88.8	88.8	88.9	88.9
IV 500	61.3	70.9	73.8	75.6	78.9	80.0	83.5	87.4	88.7	90.3	91.5	91.5	92.2	92.2	92.3	92.6
IV 400	61.3	70.9	73.9	75.7	79.0	80.3	84.0	87.8	89.2	91.4	93.0	93.0	93.7	93.7	93.8	94.1
IV 300	61.3	71.0	74.0	75.9	79.5	80.9	84.8	88.8	90.3	92.7	94.3	94.4	95.7	95.7	96.3	97.0
IV 200	61.3	71.0	74.0	75.9	79.5	80.9	84.8	88.9	90.9	93.8	95.6	95.7	97.3	97.3	98.2	98.8
IV 100	61.3	71.0	74.0	75.9	79.5	80.9	84.8	88.9	90.9	93.8	95.6	95.7	97.3	97.3	98.4	99.7
IV 0	61.3	71.0	74.0	75.9	79.5	80.9	84.8	88.9	90.9	93.8	95.6	95.7	97.3	97.3	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAKYER AFB MI

5-78

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	28.7	30.4	30.9	30.9	31.1	31.1	31.6	31.8	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9
≥ 20000	29.2	30.9	31.5	31.5	31.7	31.7	32.1	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.4
≥ 18000	29.3	31.0	31.6	31.6	31.8	31.8	32.2	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.5
≥ 16000	29.4	31.1	31.7	31.7	31.9	31.9	32.3	32.5	32.5	32.7	32.7	32.7	32.7	32.7	32.7	32.7
≥ 14000	30.2	31.9	32.4	32.4	32.8	32.8	33.2	33.4	33.4	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥ 12000	30.6	32.3	32.9	32.9	33.2	33.2	33.6	33.8	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9
≥ 10000	32.1	34.3	34.8	34.8	35.2	35.2	35.8	36.1	36.1	36.2	36.2	36.2	36.2	36.2	36.2	36.2
≥ 8000	32.4	34.6	35.1	35.1	35.6	35.6	36.1	36.4	36.4	36.5	36.5	36.5	36.5	36.5	36.5	36.5
≥ 7000	32.9	35.1	35.7	35.7	36.1	36.1	36.6	37.0	37.0	37.1	37.1	37.1	37.1	37.1	37.1	37.1
≥ 6000	33.5	35.8	36.3	36.3	36.7	36.7	37.3	37.6	37.6	37.7	37.7	37.7	37.7	37.7	37.7	37.7
≥ 5000	24.3	36.5	37.1	37.1	37.5	37.5	38.0	38.4	38.4	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 4500	35.3	38.0	38.6	38.6	39.1	39.1	39.7	40.0	40.0	40.2	40.2	40.2	40.2	40.2	40.2	40.2
≥ 4000	36.4	39.4	40.1	40.1	40.6	40.6	41.2	41.5	41.5	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥ 3500	37.3	40.9	41.8	42.0	42.7	42.7	43.2	43.5	43.5	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 3000	37.6	41.7	42.6	42.8	43.5	43.5	44.1	44.4	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 2500	41.4	46.3	47.7	48.1	48.8	48.8	49.4	49.9	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1
≥ 2000	44.2	49.8	51.9	52.6	53.8	53.8	54.5	55.2	55.2	55.4	55.6	55.6	55.6	55.6	55.6	55.6
≥ 1800	48.0	54.6	57.4	58.5	60.6	60.8	62.6	63.4	63.5	63.8	64.0	64.0	64.0	64.0	64.0	64.0
≥ 1500	49.2	56.7	59.6	60.7	63.1	63.4	65.5	66.4	66.5	66.9	67.1	67.1	67.1	67.1	67.1	67.1
≥ 1200	52.8	60.8	63.9	65.1	68.1	68.4	70.6	71.6	71.7	72.2	72.7	72.7	72.7	72.7	72.7	72.7
≥ 1000	54.6	63.0	66.4	67.6	71.1	71.8	74.4	75.4	75.6	76.3	76.8	76.8	76.8	76.8	76.8	76.8
≥ 900	56.4	65.1	68.5	70.0	73.8	74.5	77.4	78.8	79.1	79.8	80.9	80.9	81.1	81.1	81.1	81.1
≥ 800	56.7	65.5	69.1	70.6	74.4	75.0	78.1	79.7	80.2	81.0	82.2	82.2	82.5	82.5	82.5	82.5
≥ 700	57.1	65.9	69.7	71.2	75.3	76.0	79.1	80.9	81.5	82.4	84.1	84.1	84.7	84.7	84.7	84.7
≥ 600	57.2	66.7	70.6	72.1	76.4	77.3	80.4	82.2	83.1	84.3	85.9	85.9	86.5	86.5	86.5	86.5
≥ 500	57.3	66.8	71.0	72.7	77.4	78.6	81.8	84.4	85.9	87.4	89.2	89.2	90.0	90.0	90.0	90.0
≥ 400	57.4	67.1	71.8	73.6	78.4	79.7	83.3	85.9	87.4	89.0	91.3	91.3	92.0	92.0	92.3	92.5
≥ 300	57.4	67.1	71.8	73.6	78.7	80.0	83.6	86.5	88.6	90.4	92.7	92.7	93.5	93.5	94.0	94.3
≥ 200	57.4	67.2	71.9	74.0	79.1	80.6	84.6	87.9	90.6	92.8	95.2	95.2	96.3	96.3	97.5	98.1
≥ 100	57.4	67.2	72.1	74.2	79.3	80.8	84.8	88.1	91.1	93.4	96.0	96.0	97.5	97.5	98.8	99.4
≥ 0	57.4	67.2	72.1	74.2	79.4	80.9	84.9	88.3	91.2	93.5	96.1	96.1	97.6	97.6	99.1	99.7

TOTAL NUMBER OF OBSERVATIONS 928

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-78

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY STATISTICAL VALUES															
	≥ 10	≥ 5	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ .005	≥ .001
NO CEILING	29.8	31.9	32.3	32.4	32.7	32.8	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
≥ 20000	31.6	33.8	34.3	34.4	34.8	34.9	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
≥ 18000	32.1	34.2	34.8	34.9	35.2	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
≥ 16000	32.7	34.9	35.4	35.5	35.8	36.0	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
≥ 14000	33.5	35.6	36.2	36.3	36.6	36.7	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
≥ 12000	34.3	36.5	37.0	37.1	37.5	37.6	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
≥ 10000	35.5	38.1	38.8	38.9	39.2	39.3	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
≥ 9000	35.8	38.5	39.2	39.3	39.6	39.7	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
≥ 8000	37.5	40.2	40.8	40.9	41.2	41.3	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 7000	38.4	41.2	41.9	42.0	42.3	42.4	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 6000	39.3	42.1	42.7	42.8	43.2	43.3	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
≥ 5000	40.0	43.1	43.7	43.8	44.1	44.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 4500	40.6	43.7	44.5	44.6	45.1	45.2	45.5	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
≥ 4000	42.6	46.0	46.9	47.1	47.8	48.0	48.3	48.4	48.5	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥ 3500	43.3	47.0	48.2	48.5	49.3	49.5	49.8	49.9	50.1	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 3000	44.9	49.3	50.5	50.8	52.1	52.3	52.6	52.9	53.0	53.2	53.2	53.2	53.3	53.3	53.3	53.3
≥ 2500	46.9	53.0	54.8	55.7	57.3	57.6	58.1	58.3	58.8	59.2	59.5	59.5	59.8	59.8	59.8	59.8
≥ 2000	48.8	56.4	58.7	60.0	62.5	63.0	64.3	64.7	65.2	65.8	66.3	66.3	66.7	66.8	66.8	66.8
≥ 1800	49.3	57.1	59.4	60.9	63.5	63.9	65.2	65.8	66.3	67.1	67.8	67.8	68.4	68.5	68.5	68.5
≥ 1500	51.5	60.3	63.0	64.6	67.9	68.7	70.8	71.7	72.3	73.4	74.6	74.6	75.1	75.3	75.3	75.5
≥ 1200	51.9	61.7	64.7	66.3	70.1	70.9	73.2	74.4	75.1	76.3	77.6	77.6	78.4	78.6	78.7	78.7
≥ 1000	52.7	62.9	65.9	67.7	71.7	72.6	75.0	76.2	77.0	78.5	79.9	79.9	80.9	81.2	81.3	81.3
≥ 900	53.3	63.6	66.7	68.9	73.3	74.2	76.6	77.9	78.9	80.5	82.0	82.0	83.1	83.3	83.4	83.4
≥ 800	53.9	64.5	67.6	69.8	74.3	75.3	77.8	79.2	80.3	81.9	84.1	84.1	85.3	85.5	85.6	85.6
≥ 700	54.3	64.9	68.2	70.5	75.0	76.2	78.8	80.2	81.4	83.4	85.8	85.8	87.0	87.2	87.3	87.3
≥ 600	54.3	65.0	68.6	70.8	75.6	77.0	79.5	81.3	82.7	85.3	87.7	87.8	89.0	89.2	89.5	89.5
≥ 500	54.4	65.3	69.2	71.6	76.5	77.9	81.2	83.0	84.7	87.3	90.2	90.3	91.5	91.7	92.4	92.4
≥ 400	54.4	65.3	69.3	71.9	76.9	78.3	81.5	83.5	85.4	88.3	91.3	91.5	93.1	93.5	94.2	94.2
≥ 300	54.4	65.6	69.5	72.1	77.1	78.5	81.7	83.9	86.3	89.2	92.7	93.0	94.8	95.4	96.7	96.9
≥ 200	54.4	65.6	69.5	72.1	77.1	78.5	81.7	83.9	86.7	89.6	93.2	93.8	96.3	97.0	98.4	98.7
≥ 100	54.4	65.6	69.5	72.1	77.1	78.5	81.7	83.9	86.8	89.7	93.3	93.9	96.4	97.2	98.7	99.5
≥ 0	54.4	65.6	69.5	72.1	77.1	78.5	81.7	83.9	86.8	89.7	93.3	93.9	96.4	97.2	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS

929

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

9-78

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
NO CEILING	30.1	31.2	31.4	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
2 2700	33.5	35.1	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2 2600	34.5	35.7	35.9	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
2 2500	35.7	36.9	37.1	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2 2400	36.1	37.4	37.7	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2 2300	37.4	38.7	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
2 2200	40.1	41.6	41.9	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
2 2100	40.2	41.7	42.0	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
2 2000	41.5	43.1	43.4	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
2 1900	42.0	43.7	44.0	44.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2 1800	42.9	44.5	44.8	45.2	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
2 1700	44.1	45.8	46.2	46.6	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
2 1600	44.6	46.6	47.0	47.3	47.7	47.7	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2 1500	46.3	48.8	49.4	49.8	50.5	50.5	50.9	50.9	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1
2 1400	46.7	49.2	49.9	50.3	51.2	51.2	51.5	51.5	51.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8
2 1300	48.1	50.9	51.6	52.2	53.3	53.3	53.7	53.8	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2
2 1200	51.9	55.6	56.9	57.5	59.5	59.5	59.9	60.0	60.4	60.9	60.9	60.9	60.9	60.9	60.9	60.9
2 1100	55.5	60.5	62.5	63.2	65.8	66.2	67.0	67.1	67.6	68.3	68.7	68.7	68.8	68.8	68.8	68.8
2 1000	56.0	61.4	63.4	64.2	66.8	67.2	68.0	68.1	68.6	69.2	69.7	69.7	69.8	69.8	69.8	69.8
2 900	58.4	65.3	67.6	69.1	72.0	72.6	74.0	74.3	75.1	76.2	77.0	77.0	77.4	77.4	77.5	77.5
2 800	58.9	66.3	68.8	70.4	73.4	74.0	75.6	76.0	76.8	78.1	78.9	78.9	79.7	79.7	79.8	79.8
2 700	59.7	67.4	69.9	71.6	74.9	75.5	77.2	78.0	79.0	80.3	81.3	81.5	82.5	82.5	82.7	82.7
2 600	60.0	68.4	71.0	72.7	76.6	77.3	79.0	79.9	81.1	82.4	83.5	83.8	84.7	84.7	84.9	84.9
2 500	60.1	68.5	71.1	72.8	76.8	77.6	79.5	80.3	81.7	83.0	84.7	84.9	85.9	85.9	86.3	86.6
2 400	60.6	69.5	72.2	74.0	78.2	79.0	80.9	81.9	83.3	84.8	86.7	86.9	87.8	87.8	88.3	88.5
2 300	60.8	69.7	72.5	74.3	78.8	79.7	81.5	82.7	84.2	85.8	87.7	88.0	88.9	88.9	89.4	89.6
2 200	60.8	69.8	72.9	74.7	79.4	80.3	82.3	83.4	85.4	87.2	89.6	89.9	91.1	91.1	91.9	92.2
2 100	60.8	69.8	73.0	74.8	79.9	81.0	83.1	84.4	87.0	88.9	91.6	91.9	93.2	93.2	94.1	94.3
2 00	60.8	69.8	73.0	74.8	79.9	81.0	83.2	84.6	87.5	89.7	92.8	93.2	95.1	95.5	96.5	96.7
1 00	60.8	69.8	73.0	74.8	79.9	81.0	83.2	84.6	88.0	90.3	93.4	93.9	96.2	97.5	98.7	99.4
0	60.8	69.8	73.0	74.8	79.9	81.0	83.2	84.6	88.0	90.3	93.4	93.9	96.2	97.5	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

9-76

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

CEILING FEET	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
NO CEILING ≥ 2500	33.7 36.9	34.0 37.6	34.0 37.6	34.0 37.6	34.3 38.0	34.3 38.0	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	34.4 38.1	
IV 18000	37.4	38.2	38.2	38.2	38.5	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	
IV 6000	37.8	38.6	38.6	38.6	38.9	38.9	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	
IV 4000	38.8	39.7	39.7	39.7	40.0	40.0	40.1	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	
IV 2000	39.5	40.4	40.4	40.4	40.8	40.8	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	
IV 1000	43.4	44.5	44.5	44.5	44.8	44.8	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	
IV 900	44.5	45.6	45.6	45.7	46.0	46.0	46.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	
IV 800	45.7	47.0	47.0	47.1	47.4	47.4	47.5	47.6	47.6	47.6	47.6	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	
IV 700	46.6	48.1	48.2	48.4	48.8	48.8	48.9	49.0	49.0	49.0	49.0	49.0	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	
IV 600	46.9	48.4	48.5	48.7	49.1	49.1	49.2	49.4	49.4	49.4	49.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	
IV 500	48.0	49.6	49.8	50.0	50.5	50.5	50.6	50.8	50.8	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	
IV 450	48.2	50.3	50.5	50.8	51.4	51.4	51.5	51.6	51.6	51.7	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	
IV 400	49.6	51.7	51.9	52.3	52.9	52.9	53.0	53.1	53.1	53.2	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	
IV 350	50.4	52.7	52.9	53.2	54.0	54.0	54.1	54.2	54.2	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	
IV 300	51.5	53.9	54.6	55.2	56.2	56.2	56.3	56.5	56.6	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	
IV 250	54.6	57.8	59.5	60.2	61.8	61.9	62.6	62.9	63.0	63.2	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	
IV 200	58.3	62.8	64.9	65.8	67.7	68.3	69.4	69.7	69.8	70.3	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	
IV 180	59.4	64.1	66.2	67.1	69.0	69.7	70.9	71.2	71.3	71.9	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	
IV 150	61.8	67.6	70.3	71.3	74.1	74.9	76.8	77.5	78.0	78.9	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	
IV 120	62.5	69.0	71.7	72.8	75.9	76.8	78.8	79.6	80.1	81.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	
IV 100	63.3	70.3	73.1	74.3	77.7	78.7	80.8	82.2	83.2	84.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	
IV 90	63.4	70.4	73.4	74.8	78.6	79.7	81.7	83.1	84.2	85.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	
IV 80	63.5	70.6	73.7	75.3	79.4	80.6	82.8	84.2	85.3	86.9	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	
IV 70	63.5	70.6	73.7	75.4	79.6	81.1	83.4	85.1	86.2	87.8	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	
IV 60	63.7	70.8	73.9	75.6	79.9	81.4	83.8	85.6	86.9	88.6	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	
IV 500	63.7	70.8	74.0	75.7	80.2	81.7	84.1	86.0	87.5	89.6	91.6	91.8	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	
IV 400	63.7	70.9	74.1	75.9	80.6	82.4	84.8	86.8	88.6	90.9	93.3	93.5	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
IV 300	63.7	70.9	74.1	75.9	80.8	82.6	85.1	87.0	89.2	91.6	94.3	94.8	95.9	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	
IV 200	63.7	70.9	74.1	75.9	80.8	82.6	85.1	87.0	89.6	91.9	94.7	95.4	96.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	
IV 100	63.7	70.9	74.1	75.9	80.8	82.6	85.1	87.0	89.6	91.9	94.7	95.5	97.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	
IV 0	63.7	70.9	74.1	75.9	80.8	82.6	85.1	87.0	89.6	91.9	94.7	95.5	97.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-78

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1800-2000

CEILING FEET	VISIBILITY STATISTICS															
	≥ 0	≥ 0	≥ 1	≥ 2	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	≥ 8	≥ 9	≥ 10	≥ 11	≥ 12	≥ 13	≥ 14
≥ 20000	35.4	36.3	36.5	36.6	37.0	37.2	37.2	37.4	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
≥ 18000	38.1	39.4	39.6	39.7	40.1	40.3	40.3	40.5	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
≥ 16000	38.7	40.0	40.2	40.3	40.8	41.0	41.0	41.2	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥ 14000	38.8	40.1	40.3	40.4	40.9	41.1	41.1	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
≥ 12000	39.2	40.5	40.8	40.9	41.3	41.5	41.5	41.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 10000	41.0	42.4	42.6	42.7	43.2	43.4	43.4	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 9000	42.9	44.5	44.7	45.1	45.6	45.9	45.9	46.1	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 8000	43.8	45.5	45.7	46.2	46.6	46.9	46.9	47.1	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 7000	46.3	48.2	48.4	48.7	49.2	49.6	49.6	49.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 6000	47.4	49.2	49.5	49.8	50.4	50.8	50.8	51.0	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 5000	48.5	50.3	50.5	50.9	51.5	51.8	51.8	52.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 4500	49.2	51.5	51.8	52.2	52.9	53.2	53.2	53.4	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 4000	49.8	52.3	52.6	53.0	53.8	54.2	54.2	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 3500	50.2	53.1	54.0	54.4	55.4	55.8	55.8	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 3000	50.6	53.9	54.8	55.4	56.3	56.9	56.9	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 2500	53.9	57.7	59.1	59.9	61.0	61.5	61.8	62.0	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 2000	56.7	61.5	63.4	64.4	65.8	66.8	67.7	68.0	68.3	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 1800	59.1	64.5	67.3	68.6	71.0	72.0	73.0	73.2	73.8	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 1600	59.6	65.2	68.0	69.2	71.6	72.7	73.9	74.1	74.6	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 1400	62.0	68.3	71.5	73.0	75.9	77.3	78.6	79.0	79.8	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 1200	63.2	69.8	73.0	74.9	78.1	79.5	80.9	81.6	82.8	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 1000	64.0	70.9	74.9	76.9	80.3	81.9	83.4	84.6	86.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 900	64.1	71.3	75.5	77.5	81.2	82.8	84.7	86.1	87.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 800	64.9	72.2	76.5	78.5	82.2	83.9	85.8	87.4	88.8	89.9	90.2	90.2	90.2	90.2	90.2	90.2
≥ 700	64.9	72.3	76.6	78.6	82.5	84.4	86.3	88.2	89.6	90.8	91.3	91.3	91.3	91.3	91.3	91.3
≥ 600	64.9	72.5	76.9	78.9	82.8	84.9	87.0	89.0	90.5	91.8	92.5	92.5	92.5	92.5	92.5	92.5
≥ 500	65.1	72.9	77.2	79.2	83.2	85.4	87.6	89.8	91.4	93.0	93.8	93.9	94.4	94.4	94.5	94.8
≥ 400	65.1	72.9	77.2	79.2	83.2	85.5	87.7	90.0	91.9	93.7	94.5	94.8	95.4	95.4	95.5	95.8
≥ 300	65.1	72.9	77.2	79.2	83.2	85.5	87.8	90.3	92.9	94.7	96.1	96.6	97.4	97.4	97.5	97.8
≥ 200	65.1	72.9	77.2	79.2	83.2	85.5	87.8	90.3	93.1	95.1	96.5	97.1	98.0	98.3	98.4	99.0
≥ 100	65.1	72.9	77.2	79.2	83.3	85.6	88.0	90.4	93.2	95.2	96.6	97.2	98.1	98.5	98.6	100.0
≥ 0	65.1	72.9	77.2	79.2	83.3	85.6	88.0	90.4	93.2	95.2	96.6	97.2	98.1	98.5	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 030

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-78

JA

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

FEET	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
NO FOGING	33.1	34.2	34.5	34.5	34.5	34.5	34.5	34.5	34.7	34.9	35.1	35.2	35.2	35.3	35.4	35.5	35.5				
≥ 25000	34.2	35.4	35.8	35.8	35.8	35.8	35.8	35.8	36.0	36.2	36.3	36.5	36.5	36.6	36.7	36.8	36.8				
≥ 18000	34.5	35.7	36.1	36.1	36.1	36.1	36.1	36.3	36.6	36.7	36.8	36.8	36.9	37.0	37.1	37.1					
≥ 14000	34.6	35.8	36.2	36.2	36.2	36.2	36.2	36.5	36.7	36.8	36.9	36.9	37.0	37.1	37.2	37.2					
≥ 12000	35.6	36.9	37.4	37.4	37.4	37.4	37.4	37.6	37.8	38.0	38.1	38.1	38.2	38.3	38.4	38.4					
≥ 10000	36.3	37.6	38.2	38.2	38.2	38.2	38.2	38.4	38.6	38.7	38.8	38.8	38.9	39.0	39.1	39.1					
≥ 9000	37.7	39.0	39.6	39.6	39.6	39.6	39.6	39.8	40.0	40.1	40.2	40.2	40.3	40.4	40.5	40.5					
≥ 8000	38.3	39.6	40.1	40.1	40.1	40.1	40.1	40.3	40.5	40.6	40.8	40.8	40.9	41.0	41.1	41.1					
≥ 7000	40.1	41.7	42.3	42.3	42.5	42.5	42.5	42.7	42.9	43.0	43.1	43.1	43.2	43.3	43.4	43.4					
≥ 6000	41.0	42.6	43.1	43.1	43.4	43.4	43.4	43.7	43.9	44.0	44.1	44.1	44.2	44.3	44.4	44.4					
≥ 5000	41.9	43.5	44.1	44.2	44.8	44.8	44.8	45.1	45.3	45.4	45.5	45.5	45.6	45.7	45.8	45.8					
≥ 4500	44.3	45.9	46.5	46.8	47.4	47.5	47.5	47.7	48.0	48.1	48.2	48.2	48.3	48.4	48.5	48.5					
≥ 4000	45.3	47.0	47.5	48.0	48.7	48.8	48.8	49.0	49.2	49.4	49.5	49.5	49.6	49.7	49.8	49.8					
≥ 3500	47.0	49.4	50.1	50.5	51.4	51.6	51.6	51.8	52.0	52.2	52.3	52.3	52.4	52.5	52.6	52.6					
≥ 3000	48.5	51.1	51.8	52.4	53.2	53.4	53.5	53.8	54.0	54.1	54.2	54.2	54.3	54.4	54.5	54.5					
≥ 2500	51.1	53.8	54.8	55.8	56.9	57.2	57.6	57.8	58.1	58.5	58.6	58.6	58.7	58.8	58.9	58.9					
≥ 2000	53.9	57.3	59.0	60.1	61.8	62.2	62.7	62.9	63.1	63.5	63.7	63.7	63.8	63.9	64.0	64.0					
≥ 1800	55.6	60.0	62.4	63.5	66.1	66.6	67.4	67.8	68.1	68.5	68.6	68.6	68.7	68.8	68.9	68.9					
≥ 1600	57.4	61.9	64.5	65.7	68.4	69.0	70.0	70.4	70.6	71.1	71.2	71.2	71.3	71.4	71.5	71.5					
≥ 1400	59.8	65.2	68.1	69.6	72.8	73.9	75.4	75.9	76.5	77.1	77.2	77.5	77.6	77.7	77.8	77.8					
≥ 1200	61.4	67.2	70.3	72.0	75.7	76.9	79.6	79.2	79.9	80.6	80.8	81.1	81.2	81.3	81.4	81.4					
≥ 1000	62.4	68.5	72.2	74.2	78.3	79.6	81.6	82.7	83.5	84.6	85.1	85.4	85.5	85.6	85.7	85.7					
≥ 900	62.5	69.1	72.8	74.8	79.0	80.3	82.4	83.4	84.4	85.5	86.1	86.5	86.6	86.7	86.8	86.8					
≥ 800	63.4	70.3	74.2	76.3	80.5	81.9	84.2	85.4	86.7	87.8	88.5	88.8	89.0	89.1	89.2	89.2					
≥ 700	64.0	71.2	75.1	77.2	81.4	82.9	85.3	86.6	88.0	89.4	90.2	90.5	90.8	90.9	91.0	91.0					
≥ 600	64.1	71.5	75.4	77.5	81.7	83.3	85.8	87.2	88.6	90.2	91.1	91.4	91.6	91.7	91.8	91.8					
≥ 500	64.1	71.6	75.5	77.6	82.4	84.0	86.6	88.2	89.9	91.7	92.9	93.2	93.5	93.7	93.8	94.1					
≥ 400	64.1	71.7	75.6	77.7	82.5	84.4	87.2	89.2	91.1	93.1	94.3	94.7	95.4	95.5	95.6	95.9					
≥ 300	64.1	71.7	75.6	77.7	82.5	84.4	87.4	89.7	91.6	93.7	95.3	95.8	96.6	96.7	97.0	97.3					
≥ 200	64.1	71.7	75.6	77.7	82.5	84.4	87.4	89.7	91.9	94.3	96.1	96.7	97.8	98.2	98.5	98.9					
≥ 100	64.1	71.7	75.6	77.7	82.5	84.4	87.4	89.7	92.2	94.5	96.3	96.9	98.1	98.6	99.0	99.8					
≥ 0	64.1	71.7	75.6	77.7	82.5	84.4	87.4	89.7	92.2	94.5	96.3	96.9	98.1	98.6	99.2	100.0					

TOTAL NUMBER OF OBSERVATIONS

930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-78

JA

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

NO. OF FEET	21	20	25	24	23	22	21	20	25	24	23	22	21	20	25	24	23
NO. REMAINING	32.2	33.5	33.8	33.9	34.1	34.2	34.3	34.5	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.7	34.7
2 1000	34.0	35.5	35.8	35.9	36.1	36.2	36.4	36.6	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.8
2 800	34.5	36.0	36.3	36.4	36.6	36.7	36.9	37.0	37.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
2 600	34.8	36.3	36.6	36.7	36.9	37.0	37.2	37.4	37.4	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.6
2 400	35.4	37.0	37.3	37.4	37.6	37.7	38.0	38.1	38.2	38.2	38.2	38.2	38.2	38.3	38.3	38.3	38.3
2 200	36.2	37.8	38.1	38.2	38.5	38.6	38.8	39.0	39.0	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.2
2 100	38.0	39.8	40.2	40.3	40.6	40.7	40.9	41.1	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.3	41.3
2 800	38.5	40.3	40.7	40.8	41.1	41.2	41.4	41.6	41.7	41.7	41.7	41.7	41.7	41.8	41.8	41.8	41.8
2 600	39.8	41.7	42.1	42.2	42.6	42.7	42.9	43.1	43.2	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3
2 400	40.6	42.6	43.0	43.1	43.5	43.6	43.9	44.0	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2 200	41.3	43.4	43.7	43.9	44.4	44.5	44.7	44.9	45.0	45.0	45.1	45.1	45.1	45.1	45.1	45.1	45.2
2 100	42.7	44.9	45.3	45.6	46.1	46.2	46.4	46.6	46.7	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8
2 800	43.4	45.9	46.3	46.6	47.2	47.3	47.6	47.8	47.9	47.9	47.9	47.9	47.9	48.0	48.0	48.0	48.0
2 600	44.8	47.7	48.3	48.6	49.3	49.5	49.8	50.0	50.1	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.4
2 400	45.6	48.6	49.3	49.8	50.5	50.7	51.0	51.2	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.6	51.6
2 200	48.0	51.5	52.5	53.1	54.1	54.3	54.7	55.0	55.2	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5
2 100	50.9	55.4	57.0	57.8	59.3	59.6	60.4	60.8	61.1	61.4	61.5	61.5	61.5	61.5	61.6	61.6	61.6
2 800	54.0	59.4	61.6	62.7	64.9	65.4	66.6	67.2	67.5	67.9	68.2	68.7	68.3	68.3	68.3	68.4	68.4
2 600	55.0	60.8	63.1	64.2	66.5	67.1	68.4	69.0	69.3	69.8	70.1	70.1	70.2	70.2	70.2	70.3	70.3
2 400	57.6	64.4	67.0	68.4	71.3	72.1	73.9	74.8	75.3	76.0	76.5	76.5	76.7	76.8	76.9	76.9	76.9
2 200	58.9	66.1	68.9	70.4	73.7	74.5	76.7	77.7	78.4	79.2	79.8	79.8	80.1	80.1	80.2	80.3	80.3
2 100	59.9	67.5	70.5	72.2	75.8	76.7	79.1	80.5	81.4	82.5	83.3	83.4	83.7	83.8	83.9	83.9	83.9
2 800	60.1	67.9	71.1	72.9	76.7	77.7	80.1	81.7	82.7	83.9	84.7	84.8	85.2	85.2	85.4	85.4	85.4
2 600	60.7	68.7	72.0	73.8	77.7	78.8	81.3	83.0	84.2	85.4	86.6	86.6	87.1	87.2	87.4	87.4	87.4
2 400	61.0	69.7	72.6	74.5	78.5	79.7	82.3	84.1	85.5	86.9	88.1	88.2	88.7	88.8	89.0	89.0	89.0
2 200	61.0	69.4	72.9	74.9	79.1	80.4	83.1	85.2	86.7	88.3	89.6	89.7	90.3	90.3	90.5	90.6	90.6
2 100	61.1	69.7	73.4	75.4	79.8	81.2	84.1	86.3	88.1	89.9	91.6	91.8	92.5	92.5	92.9	93.1	93.1
2 800	61.1	69.7	73.5	75.5	80.1	81.6	84.6	87.0	89.1	91.1	93.1	93.3	94.2	94.2	94.6	94.9	94.9
2 600	61.1	69.8	73.5	75.6	80.3	81.9	85.0	87.5	90.1	92.3	94.6	94.9	96.2	96.4	97.0	97.4	97.4
2 400	61.1	69.8	73.5	75.7	80.3	81.9	85.0	87.6	90.4	92.8	95.3	95.6	97.2	97.7	98.5	99.0	99.0
2 200	61.1	69.8	73.5	75.7	80.3	81.9	85.0	87.6	90.5	92.9	95.3	95.7	97.4	97.9	98.7	99.7	99.7
2 100	61.1	69.8	73.5	75.7	80.3	81.9	85.0	87.6	90.5	92.9	95.3	95.7	97.4	97.9	98.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 7437

2

2

9-70

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0000-0200

TOTAL NUMBER OF OBSERVATIONS 846

USAF ETAC 0-14.5 (CL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835 K I SAWYER AFB MI

9-70

FEA

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	≥ 0	≥ 5	≥ 10	≥ 15	≥ 20	≥ 25	≥ 30	≥ 35	≥ 40	≥ 45	≥ 50	≥ 55	≥ 60	≥ 65	≥ 70	≥ 75	≥ 80
NO CEILING	34.2	36.1	36.3	36.6	36.9	36.9	37.0	37.1	37.2	37.2	37.4	37.4	37.4	37.5	37.5	37.5	37.5
≥ 2000	34.8	36.6	36.9	37.2	37.5	37.5	37.6	37.7	37.8	37.8	37.9	37.9	37.9	38.1	38.1	38.1	38.1
≥ 1800	35.5	37.4	37.6	37.9	38.2	38.2	38.3	38.4	38.5	38.5	38.7	38.7	38.7	38.8	38.8	38.8	38.8
≥ 1600	35.5	37.4	37.6	37.9	38.2	38.2	38.3	38.4	38.5	38.5	38.7	38.7	38.7	38.8	38.8	38.8	38.8
≥ 1400	35.6	37.5	37.7	38.1	38.3	38.3	38.4	38.5	38.7	38.7	38.8	38.8	38.8	38.9	38.9	38.9	38.9
≥ 1200	35.9	37.8	38.1	38.4	38.7	38.7	38.8	38.9	39.0	39.0	39.1	39.1	39.1	39.2	39.2	39.2	39.2
≥ 1000	37.9	40.0	40.3	40.9	41.1	41.1	41.4	41.5	41.6	41.6	41.7	41.7	41.7	41.8	41.8	41.8	41.8
≥ 800	38.3	40.3	40.7	41.3	41.5	41.5	41.7	41.8	42.0	42.0	42.1	42.1	42.1	42.2	42.2	42.2	42.2
≥ 600	39.4	41.6	42.0	42.6	42.8	42.8	43.3	43.4	43.5	43.5	43.6	43.6	43.6	43.7	43.7	43.7	43.7
≥ 400	40.9	43.1	43.5	44.1	44.3	44.3	44.8	44.9	45.0	45.0	45.2	45.2	45.2	45.3	45.3	45.3	45.3
≥ 200	41.6	43.9	44.2	44.8	45.0	45.0	45.5	45.6	45.7	45.7	45.9	45.9	45.9	46.0	46.0	46.0	46.0
≥ 100	44.3	46.8	47.2	47.8	48.0	48.0	48.5	48.6	48.7	48.7	48.8	48.8	48.8	48.9	48.9	48.9	48.9
≥ 50	46.5	49.2	49.8	50.5	50.8	50.8	51.3	51.4	51.5	51.5	51.7	51.7	51.7	51.8	51.8	51.8	51.8
≥ 25	48.0	50.9	51.7	52.4	53.0	53.1	53.5	53.7	53.8	53.8	53.9	53.9	53.9	54.0	54.0	54.0	54.0
≥ 12.5	48.8	51.9	52.7	53.7	54.3	54.5	55.0	55.2	55.4	55.4	55.6	55.6	55.6	55.7	55.7	55.7	55.7
≥ 6.25	50.6	54.7	56.0	57.3	58.2	58.4	59.0	59.2	59.5	59.5	59.9	59.9	59.9	60.0	60.0	60.0	60.0
≥ 3.125	53.4	58.0	59.8	61.3	62.9	63.5	64.5	64.9	65.1	65.1	65.7	65.7	65.7	65.8	65.8	65.8	65.8
≥ 1.5625	53.4	63.6	65.7	67.5	69.4	70.1	71.5	71.9	72.5	72.6	73.2	73.2	73.2	73.3	73.4	73.4	73.4
≥ 0.78125	59.7	65.6	67.8	69.7	71.7	72.7	74.1	74.5	75.2	75.3	75.9	75.9	76.0	76.1	76.1	76.1	76.1
≥ 0.390625	61.9	68.1	71.0	72.9	75.4	76.5	78.4	79.0	79.9	80.0	80.6	80.6	80.7	80.9	80.9	80.9	80.9
≥ 0.1953125	64.1	70.7	73.8	76.0	78.7	79.9	82.0	82.7	83.7	83.8	84.4	84.4	84.5	84.6	84.6	84.6	84.6
≥ 0.09765625	65.0	72.0	75.3	77.8	80.5	81.8	84.2	85.3	86.3	86.5	87.4	87.4	87.8	87.9	87.9	87.9	87.9
≥ 0.048828125	65.2	72.3	75.8	78.3	81.0	82.3	84.6	85.8	86.9	87.4	88.2	88.2	88.7	88.8	88.8	88.8	88.8
≥ 0.0244140625	65.4	72.7	76.4	78.8	81.8	83.2	85.6	86.9	87.9	88.5	89.4	89.4	89.8	90.0	90.0	90.0	90.0
≥ 0.01220703125	65.5	72.8	76.6	79.1	82.3	83.7	86.3	87.7	88.8	89.7	90.7	90.7	91.1	91.3	91.3	91.3	91.3
≥ 0.006103515625	65.8	73.2	77.0	79.6	82.9	84.5	87.5	88.9	90.0	91.0	92.1	92.1	92.6	92.7	92.7	92.7	92.7
≥ 0.0030517578125	66.1	73.4	77.4	80.0	83.5	85.5	88.8	90.5	91.6	92.8	94.6	94.6	95.0	95.2	95.2	95.2	95.2
≥ 0.00152587890625	66.1	73.4	77.4	80.0	83.6	85.6	89.0	90.9	92.0	93.1	95.3	95.3	95.7	95.9	95.9	95.9	95.9
≥ 0.000762939453125	66.1	73.4	77.4	80.0	83.6	85.6	89.0	91.5	92.7	94.2	96.9	97.2	97.9	98.1	98.1	98.1	98.1
≥ 0.0003814697265625	66.1	73.4	77.4	80.0	83.6	85.6	89.0	91.5	93.0	94.6	97.4	97.6	98.6	98.8	99.1	99.1	99.1
≥ 0.00019073486328125	66.1	73.4	77.4	80.0	83.6	85.6	89.0	91.5	93.0	94.6	97.4	97.6	98.6	98.8	99.4	100.0	100.0
≥ 0.000095367431640625	66.1	73.4	77.4	80.0	83.6	85.6	89.0	91.5	93.0	94.6	97.4	97.6	98.6	98.8	99.4	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

9-70

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
29.3	31.0	31.8	31.8	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
30.4	32.2	33.0	33.0	33.7	33.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
31.0	32.9	33.8	33.8	34.6	34.6	34.6	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
31.2	33.1	34.0	34.0	34.9	34.9	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
31.6	33.6	34.5	34.5	35.3	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
32.7	34.8	35.7	35.7	36.5	36.5	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
34.2	36.2	37.1	37.1	37.9	37.9	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
34.4	36.8	37.7	37.7	38.5	38.5	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
36.3	39.4	39.5	39.5	40.3	40.3	40.4	40.4	40.4	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
37.2	39.5	40.5	40.5	41.4	41.4	41.5	41.5	41.5	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
38.8	41.3	42.7	42.7	43.5	43.5	43.6	43.6	43.6	43.6	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
42.0	44.9	46.3	46.3	47.3	47.3	47.4	47.4	47.4	47.4	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
42.7	45.3	46.7	46.7	47.9	47.9	48.0	48.1	48.2	48.3	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
43.3	46.7	48.2	48.2	50.0	50.0	50.1	50.4	50.5	50.6	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
43.9	47.8	49.4	49.4	51.2	51.2	51.4	51.8	51.9	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
40.6	51.1	52.3	53.1	54.8	55.2	55.3	55.7	56.0	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
49.2	54.8	57.2	57.4	60.2	60.6	61.6	62.1	62.3	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
51.8	58.7	61.2	61.6	64.8	65.5	67.3	68.2	69.5	70.4	70.9	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
53.2	60.9	62.9	63.2	66.4	67.1	69.0	70.0	71.5	72.2	72.7	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
56.0	63.5	66.7	67.5	71.2	72.1	74.9	76.0	77.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
57.4	65.1	68.8	69.7	73.6	74.8	78.0	79.2	81.3	82.5	83.2	83.6	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
58.5	66.4	70.2	71.4	76.0	77.2	80.9	82.2	84.6	86.1	87.2	87.8	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
58.6	66.5	70.3	71.5	76.2	77.4	81.2	82.7	85.3	86.8	87.9	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
58.9	66.9	70.8	72.0	77.0	78.3	82.0	83.7	86.4	87.9	89.2	90.0	90.4	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
59.0	67.1	71.2	72.5	77.6	79.1	83.0	84.9	87.7	89.2	90.7	91.5	92.4	92.7	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
59.0	67.4	71.4	72.8	78.3	79.6	83.5	85.3	88.2	89.7	91.1	92.0	92.9	93.1	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
59.3	67.8	71.9	73.3	78.5	80.1	84.2	85.2	89.2	90.8	92.6	93.4	94.7	95.0	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9
59.3	68.0	72.0	73.4	79.0	80.3	84.6	85.8	90.0	91.5	93.3	94.1	95.4	96.0	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
59.3	68.0	72.0	73.4	79.1	80.5	85.1	87.5	91.0	92.8	94.7	95.5	96.9	97.6	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5
59.3	68.0	72.0	73.4	79.1	80.5	85.1	87.5	91.0	92.8	94.8	95.6	97.4	98.2	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2
59.3	68.0	72.0	73.4	79.1	80.5	85.1	87.5	91.0	92.8	94.8	95.6	97.4	98.2	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2
59.3	68.0	72.0	73.4	79.1	80.5	85.1	87.5	91.0	92.8	94.8	95.6	97.4	98.2	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS

844

USAF ETAC

0-14-5 TOL A: PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-72

FEET

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	33.0	34.3	34.8	34.8	35.0	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
≥ 2000	35.5	37.4	37.9	37.9	38.1	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
≥ 1800	36.2	38.2	38.7	38.7	38.9	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 1600	36.2	38.2	38.7	38.7	38.9	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 1400	37.6	39.8	40.2	40.2	40.5	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
≥ 1200	38.2	40.5	41.1	41.1	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥ 1000	40.0	42.4	43.0	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 900	40.2	42.6	43.2	43.2	43.4	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥ 800	40.8	43.3	43.9	43.9	44.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 700	42.6	45.3	46.0	46.0	46.3	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 600	44.0	46.7	47.7	47.7	47.9	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥ 500	45.8	49.0	49.9	50.1	50.3	50.5	50.5	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 450	46.3	49.5	50.4	50.5	50.8	51.0	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
≥ 400	47.7	51.5	52.4	52.5	52.8	53.1	53.1	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 350	49.3	53.4	54.6	54.8	55.1	55.6	55.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 300	51.5	56.4	57.9	58.6	58.9	59.4	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 2500	55.1	60.8	62.2	63.0	63.6	64.4	64.7	65.3	65.7	65.8	65.9	65.9	66.0	66.0	66.0	66.0
≥ 2000	59.6	65.8	67.7	68.9	70.8	71.7	72.4	73.6	74.2	75.0	75.1	75.3	75.4	75.4	75.4	75.4
≥ 1800	60.6	67.2	69.1	70.4	72.3	73.3	74.0	75.1	75.7	76.6	76.7	76.8	76.9	76.9	76.9	76.9
≥ 1600	62.5	69.8	72.1	73.6	76.6	77.6	79.2	80.5	81.2	82.1	82.4	82.5	82.7	82.7	82.7	82.7
≥ 1400	64.1	72.0	74.7	76.4	79.9	81.1	83.2	84.6	85.3	86.3	86.6	86.7	87.0	87.0	87.0	87.0
≥ 1200	64.7	72.7	75.6	77.5	81.8	83.3	86.2	87.8	88.6	89.7	90.7	90.9	91.2	91.2	91.2	91.2
≥ 1000	65.0	72.9	75.9	77.8	82.1	83.7	86.5	88.3	89.3	90.4	91.4	91.6	92.0	92.0	92.0	92.0
≥ 900	65.1	73.0	76.0	77.9	82.6	84.1	87.1	88.9	89.9	91.0	92.4	92.7	93.0	93.0	93.1	93.1
≥ 800	65.1	73.0	76.0	77.9	82.6	84.1	87.1	88.9	89.9	91.0	92.4	92.7	93.0	93.0	93.1	93.1
≥ 700	65.1	73.0	76.0	77.9	82.6	84.1	87.1	88.9	89.9	91.0	92.4	92.7	93.0	93.0	93.1	93.1
≥ 600	65.1	73.0	76.0	77.9	82.6	84.1	87.1	88.9	89.9	91.0	92.4	92.7	93.0	93.0	93.1	93.1
≥ 500	65.3	73.3	76.3	78.2	83.3	85.1	88.5	90.9	92.1	93.3	95.3	95.9	96.6	96.7	97.8	97.8
≥ 450	65.3	73.3	76.3	78.2	83.3	85.1	88.5	90.9	92.1	93.3	95.3	95.9	96.6	96.7	97.8	97.8
≥ 400	65.3	73.3	76.3	78.2	83.3	85.1	88.5	90.9	92.1	93.3	95.3	95.9	96.6	96.7	97.8	97.8
≥ 350	65.3	73.3	76.3	78.2	83.3	85.1	88.5	90.9	92.1	93.3	95.3	95.9	96.6	96.7	97.8	97.8
≥ 300	65.3	73.3	76.3	78.2	83.3	85.1	88.5	90.9	92.1	93.3	95.3	95.9	96.6	96.7	97.8	97.8
≥ 200	65.3	73.3	76.3	78.2	83.3	85.1	88.5	90.9	92.1	93.3	95.3	95.9	96.6	96.7	97.8	97.8
≥ 100	65.3	73.3	76.3	78.2	83.3	85.1	88.5	90.9	92.1	93.3	95.3	95.9	96.6	96.7	97.8	97.8
≥ 0	65.3	73.3	76.3	78.2	83.3	85.1	88.5	90.9	92.1	93.3	95.3	95.9	96.6	96.7	97.8	97.8

TOTAL NUMBER OF OBSERVATIONS 845

USAF ETAC

FORM 64

0-14-5 (OL A) 1964

ALL OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB HI

9-78

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2
NO CEILING	36.8	37.7	37.8	37.8	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
≥ 2000	40	41.4	41.5	41.5	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
≥ 1800	41	42.1	42.2	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 1600	41	42.3	42.4	42.4	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
≥ 1400	42.1	43.0	43.1	43.1	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
≥ 1200	43.3	44.2	44.3	44.4	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 1000	45.3	46.2	46.3	46.5	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
≥ 900	45.7	46.7	46.8	46.9	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 800	46.7	47.8	48.1	48.2	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 700	48.6	49.9	50.4	50.5	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
≥ 600	49.6	50.9	51.4	51.5	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 500	51.4	52.7	53.3	53.7	54.3	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 450	52.0	53.3	53.9	54.3	54.8	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 400	53.9	55.7	56.3	56.6	57.3	57.6	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥ 350	55.1	57.2	57.8	58.2	58.9	59.1	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 300	57.9	60.3	61.2	61.7	62.6	62.9	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 250	62.1	65.1	66.7	67.1	68.1	68.3	68.9	69.3	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 200	65.0	69.7	72.2	72.8	74.2	74.6	75.6	76.4	76.8	77.3	77.3	77.3	77.4	77.4	77.4	77.4
≥ 1800	65.0	69.7	72.3	73.0	74.5	74.8	76.1	76.7	77.2	77.7	77.7	77.7	77.8	77.8	77.8	77.8
≥ 1500	66.1	71.5	74.6	75.4	77.2	77.9	79.7	80.9	81.6	82.5	82.7	83.1	83.3	83.3	83.6	83.6
≥ 1200	67.8	73.6	77.0	78.1	80.3	81.1	83.1	84.3	85.0	86.2	86.6	87.1	87.4	87.4	87.6	87.6
≥ 1000	68.8	75.2	78.6	79.9	82.2	83.2	86.1	87.2	87.9	89.5	90.3	90.8	91.1	91.1	91.4	91.4
≥ 900	68.9	75.4	79.0	80.3	82.6	83.7	86.6	87.8	88.5	90.1	90.9	91.4	91.8	91.8	92.1	92.1
≥ 800	69.4	76.0	79.6	80.9	83.2	84.3	87.2	88.8	89.7	91.3	92.3	92.8	93.5	93.6	93.9	93.9
≥ 700	69.5	76.1	79.8	81.1	83.5	84.5	87.5	89.0	90.0	91.5	92.6	93.0	93.9	94.1	94.9	94.9
≥ 600	69.5	76.1	79.8	81.1	83.6	84.6	87.9	89.5	90.4	92.0	93.0	93.5	94.8	95.0	95.9	95.9
≥ 500	69.5	76.2	79.9	81.2	83.7	84.9	88.2	90.1	91.0	92.6	93.6	94.1	95.6	95.9	96.7	96.7
≥ 400	69.5	76.2	79.9	81.3	83.8	85.0	88.5	90.5	91.5	93.1	94.4	94.9	96.6	96.9	97.8	97.8
≥ 300	69.5	76.2	79.9	81.3	83.8	85.0	88.5	90.5	91.6	93.6	95.2	95.6	97.4	97.8	98.6	98.6
≥ 200	69.5	76.2	79.9	81.3	83.8	85.0	88.5	90.5	91.6	93.6	95.5	96.0	98.0	98.5	99.5	99.9
≥ 100	69.5	76.2	79.9	81.3	83.8	85.0	88.5	90.5	91.6	93.6	95.5	96.0	98.0	98.5	99.5	100.0
≥ 0	69.5	76.2	79.9	81.3	83.8	85.0	88.5	90.5	91.6	93.6	95.5	96.0	98.0	98.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS

246

USAF ETAC

FORM 64

G-14-5 (OL A, PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE, MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-78

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ .005	≥ 0
NO CEILING	40.7	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.5	41.7	41.7	41.7	41.7	41.7	41.7
≥ 20000	43.9	44.6	44.6	44.7	44.7	44.7	44.7	44.7	44.9	45.0	45.1	45.1	45.1	45.1	45.1
≥ 18000	44.5	45.3	45.3	45.4	45.4	45.4	45.4	45.4	45.6	45.7	45.8	45.8	45.8	45.8	45.8
≥ 16000	44.7	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.8	45.9	46.0	46.0	46.0	46.0	46.0
≥ 14000	45.7	46.5	46.5	46.6	46.6	46.6	46.6	46.6	46.7	46.9	47.0	47.0	47.0	47.0	47.0
≥ 12000	46.6	47.8	47.8	47.9	47.9	47.9	47.9	47.9	48.0	48.2	48.3	48.3	48.3	48.3	48.3
≥ 10000	48.4	49.6	49.6	49.7	49.7	49.7	49.7	49.7	49.8	49.9	50.1	50.1	50.1	50.1	50.1
≥ 9000	48.9	50.1	50.1	50.2	50.2	50.2	50.2	50.2	50.3	50.4	50.5	50.5	50.5	50.5	50.5
≥ 8000	49.3	50.5	50.5	50.7	50.7	50.7	50.7	50.7	50.8	50.9	51.0	51.0	51.0	51.0	51.0
≥ 7000	52.2	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.6	53.7	53.8	53.8	53.8	53.8	53.8
≥ 6000	53.3	54.9	54.9	55.0	55.0	55.0	55.3	55.3	55.4	55.5	55.6	55.6	55.6	55.6	55.6
≥ 5000	55.1	56.8	56.9	57.0	57.3	57.3	57.5	57.5	57.6	57.8	57.9	57.9	57.9	57.9	57.9
≥ 4500	56.1	57.8	57.9	58.0	58.2	58.2	58.5	58.5	58.6	58.7	58.8	58.8	58.8	58.8	58.8
≥ 4000	57.3	58.9	59.1	59.2	59.5	59.6	60.0	60.0	60.2	60.4	60.5	60.5	60.5	60.5	60.5
≥ 3500	58.5	60.4	60.7	60.8	61.3	61.4	61.8	61.8	62.0	62.1	62.2	62.2	62.2	62.2	62.2
≥ 3000	60.7	63.0	63.3	63.6	64.1	64.3	64.9	65.0	65.2	65.3	65.4	65.4	65.4	65.4	65.4
≥ 2500	62.7	65.8	66.5	67.0	67.6	68.0	69.1	69.2	69.5	69.7	69.8	69.8	69.8	69.8	69.8
≥ 2000	66.2	69.9	71.0	71.6	73.0	73.7	75.4	75.6	76.0	76.3	76.4	76.4	76.4	76.4	76.4
≥ 1800	66.4	70.3	71.5	72.1	74.1	74.9	76.6	76.8	77.2	77.5	77.6	77.6	77.6	77.6	77.6
≥ 1500	67.9	72.4	73.7	74.4	76.8	77.6	80.1	81.1	81.4	81.9	82.0	82.0	82.2	82.2	82.2
≥ 1200	68.6	73.7	75.1	76.2	79.2	80.0	82.5	83.9	84.3	84.7	85.1	85.1	85.3	85.3	85.3
≥ 1000	70.2	75.7	77.3	78.3	81.4	82.4	85.3	86.7	87.2	88.3	89.3	89.3	89.6	89.6	89.6
≥ 900	70.9	76.6	78.1	79.2	82.2	83.2	86.4	87.8	88.3	89.3	90.4	90.4	90.7	90.7	90.7
≥ 800	71.1	77.2	78.8	79.9	83.2	84.4	87.7	89.6	90.3	91.5	92.5	92.5	92.8	93.0	93.0
≥ 700	71.2	77.3	78.9	80.1	83.4	84.7	88.5	90.4	91.1	92.3	93.4	93.4	93.8	94.1	94.4
≥ 600	71.4	77.4	79.1	80.2	83.8	85.1	89.0	91.0	91.7	93.0	94.1	94.1	94.6	94.8	95.1
≥ 500	71.4	77.4	79.1	80.2	83.8	85.3	89.6	91.8	92.5	94.0	95.1	95.1	96.0	96.2	96.6
≥ 400	71.5	77.5	79.3	80.5	84.0	85.6	90.1	92.5	93.3	94.7	96.1	96.1	96.9	97.2	97.5
≥ 300	71.5	77.5	79.3	80.5	84.0	85.6	90.2	92.8	93.7	95.5	97.0	97.0	98.2	98.6	98.9
≥ 200	71.5	77.6	79.4	80.6	84.1	85.7	90.3	92.9	93.8	95.6	97.5	97.5	98.8	99.2	99.8
≥ 100	71.5	77.8	79.5	80.7	84.3	85.8	90.4	93.0	94.0	95.7	97.6	97.6	98.9	99.3	99.9
≥ 0	71.5	77.8	79.5	80.7	84.3	85.8	90.4	93.0	94.0	95.7	97.6	97.6	98.9	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 845

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

9-76

FE

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	9	8	7	6	5	4	3	2	1	1/2	1/4	1/8	1/16	1/32	1/64
NO CEILING ≥ 20000	41.7	42.2	42.3	42.3	42.6	42.6	42.6	42.6	42.6	42.6	42.9	42.9	42.9	42.9	43.0	43.0
≥ 18000 N 6700	43.4	43.9	44.0	44.0	44.2	44.2	44.2	44.2	44.2	44.2	44.6	44.6	44.6	44.6	44.7	44.7
≥ 14000 N 12000	43.7	44.3	44.6	44.6	44.9	44.9	44.9	44.9	44.9	44.9	45.3	45.3	45.3	45.3	45.4	45.4
≥ 10000 N 9300	46.3	46.9	47.2	47.2	47.6	47.6	47.6	47.6	47.6	47.6	48.0	48.0	48.0	48.0	48.1	48.1
≥ 8000 N 7000	47.0	47.6	47.9	47.9	48.3	48.3	48.3	48.3	48.3	48.3	48.7	48.7	48.7	48.7	48.8	48.8
≥ 6000 N 5000	49.5	50.5	50.8	50.9	51.7	51.7	51.7	51.7	51.7	51.7	52.0	52.0	52.0	52.0	52.1	52.1
≥ 4500 N 4000	53.5	55.0	55.6	55.8	56.6	56.7	56.7	56.7	56.7	56.7	57.1	57.1	57.1	57.1	57.2	57.2
≥ 3500 N 3000	56.3	58.2	59.2	59.6	60.5	60.8	60.9	60.9	60.9	60.9	61.5	61.5	61.5	61.5	61.6	61.6
≥ 2500 N 2000	60.0	62.8	64.2	64.9	66.8	67.3	68.0	68.2	68.2	68.2	68.8	68.8	68.8	68.8	68.9	68.9
≥ 1800 N 1500	63.9	67.5	69.3	70.4	73.0	73.8	74.8	75.7	75.8	75.9	76.5	76.5	76.6	76.6	76.7	76.7
≥ 1200 N 1000	67.8	72.9	75.1	76.4	79.2	79.9	81.6	82.5	82.7	83.2	84.2	84.2	84.3	84.3	84.4	84.4
≥ 900 N 800	69.6	75.2	77.3	78.6	81.8	82.5	84.9	86.1	86.4	87.6	88.7	88.7	88.8	88.8	89.0	89.0
≥ 700 N 600	69.9	75.8	78.3	79.8	83.5	84.3	87.9	89.6	90.1	91.5	92.6	92.6	92.9	92.9	93.4	93.4
≥ 500 N 400	70.0	76.0	78.5	80.4	84.5	85.5	89.8	92.0	92.4	94.1	95.3	95.3	95.7	95.7	96.2	96.2
≥ 300 N 200	70.0	76.4	78.8	80.7	85.0	86.1	90.8	93.4	94.3	96.2	97.6	97.6	98.5	98.5	98.9	98.9
≥ 100 N 0	70.0	76.5	79.0	80.9	85.1	86.2	90.9	93.5	94.6	96.5	97.9	97.9	98.8	98.8	99.6	99.6
≥ 0	70.0	76.5	79.0	80.9	85.1	86.2	90.9	93.5	94.7	96.6	98.0	98.1	98.9	99.1	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835 K I SAWYER AFB MI

19-72

FEF

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	35.3	35.6	36.9	36.9	37.2	37.3	37.3	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.6	37.6
≥ 2500	37.1	38.6	38.8	38.9	39.2	39.2	39.3	39.3	39.4	39.4	39.5	39.5	39.5	39.5	39.6	39.6
≥ 1800	37.6	39.1	39.4	39.5	39.8	39.8	39.9	39.9	40.0	40.0	40.1	40.1	40.1	40.1	40.2	40.2
≥ 1500	37.7	39.2	39.5	39.6	39.9	39.9	40.0	40.1	40.1	40.1	40.2	40.2	40.2	40.2	40.3	40.3
≥ 1000	38.3	39.9	40.2	40.2	40.6	40.6	40.7	40.7	40.7	40.8	40.9	40.9	40.9	40.9	40.9	40.9
≥ 800	39.1	40.7	41.0	41.1	41.5	41.5	41.6	41.7	41.7	41.7	41.8	41.8	41.8	41.9	41.9	41.9
≥ 600	40.8	42.4	42.8	42.9	43.3	43.3	43.4	43.5	43.5	43.5	43.6	43.6	43.6	43.6	43.7	43.7
≥ 400	41.1	42.8	43.1	43.2	43.6	43.6	43.8	43.8	43.8	43.9	43.9	44.0	44.0	44.0	44.0	44.0
≥ 300	42.0	43.8	44.1	44.3	44.7	44.7	44.9	44.9	45.0	45.0	45.1	45.1	45.1	45.1	45.2	45.2
≥ 200	43.6	45.4	45.8	46.0	46.4	46.5	46.6	46.7	46.7	46.7	46.8	46.8	46.9	46.9	46.9	46.9
≥ 100	44.8	46.8	47.3	47.4	47.9	48.0	48.2	48.2	48.2	48.3	48.3	48.4	48.4	48.4	48.4	48.4
≥ 50	47.0	49.2	49.7	49.9	50.6	50.7	50.9	51.0	51.0	51.0	51.1	51.2	51.2	51.2	51.2	51.2
≥ 25	48.0	50.4	51.0	51.2	52.0	52.1	52.3	52.4	52.4	52.5	52.5	52.6	52.6	52.6	52.6	52.6
≥ 15	49.6	52.2	52.9	53.1	54.0	54.2	54.4	54.5	54.6	54.6	54.7	54.8	54.8	54.8	54.8	54.8
≥ 10	50.8	53.6	54.5	54.8	55.7	56.0	56.3	56.4	56.5	56.5	56.7	56.7	56.7	56.7	56.7	56.7
≥ 5	53.1	56.6	57.7	58.2	59.5	59.8	60.2	60.4	60.5	60.6	60.8	60.8	60.9	60.9	60.9	60.9
≥ 3	55.9	60.4	61.9	62.5	64.3	64.8	65.6	66.0	66.2	66.3	66.6	66.6	66.7	66.7	66.7	66.7
≥ 2	59.5	64.9	66.8	67.8	70.2	70.8	72.2	72.8	73.4	73.8	74.1	74.2	74.3	74.3	74.3	74.3
≥ 1	60.5	66.2	68.2	69.2	71.8	72.5	73.9	74.6	75.1	75.5	75.8	75.9	76.0	76.0	76.1	76.1
≥ 1/2	62.7	68.9	71.4	72.5	75.5	76.4	78.4	79.5	80.2	80.7	81.1	81.2	81.4	81.4	81.5	81.5
≥ 1/4	64.2	71.0	73.7	75.1	78.5	79.4	81.6	82.9	83.7	84.3	84.9	85.0	85.3	85.3	85.4	85.4
≥ 1/8	65.1	72.2	75.0	76.5	80.1	81.2	83.9	85.4	86.2	87.2	88.1	88.3	88.8	88.8	88.9	88.9
≥ 1/16	65.5	72.7	75.6	77.1	80.8	81.8	84.6	86.1	87.1	88.1	89.0	89.2	89.7	89.7	89.8	89.8
≥ 1/32	65.7	73.0	76.0	77.5	81.4	82.5	85.4	87.1	88.2	89.3	90.3	90.5	91.1	91.1	91.2	91.2
≥ 1/64	65.9	73.3	76.4	78.0	82.0	83.2	86.4	88.2	89.3	90.6	91.7	91.9	92.6	92.7	93.1	93.1
≥ 1/128	66.0	73.5	76.7	78.4	82.6	83.8	87.3	89.1	90.3	91.7	92.8	93.1	93.7	93.9	94.3	94.3
≥ 1/256	66.2	73.8	77.0	78.8	83.2	84.6	88.2	90.3	91.5	93.0	94.3	94.6	95.5	95.6	96.1	96.1
≥ 1/512	66.2	73.9	77.1	78.9	83.4	84.7	88.5	90.8	92.0	93.6	95.1	95.4	96.3	96.5	97.0	97.0
≥ 1/1024	66.2	73.9	77.1	78.9	83.4	84.8	88.7	91.2	92.7	94.4	96.1	96.5	97.7	97.9	98.4	98.5
≥ 1/2048	66.2	74.0	77.2	79.0	83.4	84.8	88.7	91.3	92.8	94.6	96.5	96.9	98.2	98.6	99.3	99.5
≥ 1/4096	66.2	74.0	77.2	79.0	83.4	84.9	88.7	91.3	92.9	94.7	96.5	96.9	98.3	98.6	99.4	100.0
≥ 1/8192	66.2	74.0	77.2	79.0	83.4	84.9	88.7	91.3	92.9	94.7	96.5	96.9	98.3	98.6	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 6766

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

69-70

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	45.9	47.0	48.0	48.2	48.3	48.3	48.3	48.4	48.4	48.6	48.7	48.7	48.7	48.8	48.8	48.8
≥ 20000	46.9	48.1	49.0	49.2	49.4	49.4	49.4	49.5	49.5	49.7	49.8	49.8	49.8	49.9	49.9	49.9
≥ 8000	46.9	48.1	49.0	49.2	49.4	49.4	49.4	49.5	49.5	49.7	49.8	49.8	49.8	49.9	49.9	49.9
≥ 6000	47.0	48.2	49.1	49.4	49.5	49.5	49.5	49.6	49.6	49.8	49.9	49.9	49.9	50.0	50.0	50.0
≥ 14000	48.2	49.4	50.3	50.5	50.6	50.6	50.6	50.8	50.8	51.0	51.1	51.1	51.1	51.2	51.2	51.2
≥ 12000	48.8	50.1	51.1	51.3	51.4	51.4	51.4	51.5	51.5	51.7	51.8	51.8	51.8	51.9	51.9	51.9
≥ 10000	50.3	51.6	52.6	52.8	52.9	52.9	52.9	53.0	53.0	53.2	53.3	53.3	53.3	53.4	53.4	53.4
≥ 9000	50.5	52.2	53.1	53.3	53.4	53.4	53.4	53.5	53.5	53.8	53.9	53.9	53.9	54.0	54.0	54.0
≥ 8000	51.2	52.8	53.8	54.0	54.1	54.1	54.1	54.2	54.2	54.4	54.5	54.5	54.5	54.6	54.6	54.6
≥ 7000	52.6	54.3	55.4	55.6	55.7	55.7	55.7	55.8	55.8	56.0	56.1	56.1	56.1	56.2	56.2	56.2
≥ 6000	53.0	55.1	56.1	56.3	56.5	56.5	56.5	56.6	56.6	56.8	56.9	56.9	56.9	57.0	57.0	57.0
≥ 5000	54.7	57.1	58.2	58.4	58.5	58.5	58.5	58.6	58.6	58.8	58.9	58.9	58.9	59.0	59.0	59.0
≥ 4500	55.5	58.0	59.0	59.2	59.4	59.4	59.4	59.5	59.5	59.7	59.8	59.8	59.8	59.9	59.9	59.9
≥ 4000	56.6	59.5	60.5	60.8	61.2	61.2	61.2	61.3	61.5	61.7	61.8	61.8	61.8	61.9	61.9	61.9
≥ 3500	57.4	60.3	61.4	61.6	62.3	62.3	62.3	62.4	62.6	62.8	62.9	62.9	62.9	63.0	63.0	63.0
≥ 3000	60.0	63.0	64.2	64.5	65.3	65.3	65.3	65.4	65.6	65.8	65.9	65.9	65.9	66.0	66.0	66.0
≥ 2500	61.8	65.4	67.1	67.8	69.0	69.1	69.2	69.4	69.6	69.8	69.9	69.9	69.9	70.0	70.0	70.0
≥ 2000	64.7	68.4	70.3	71.1	72.5	72.6	73.1	73.8	74.1	74.3	74.4	74.4	74.4	74.5	74.5	74.5
≥ 1800	65.5	69.1	71.1	71.8	73.2	73.3	73.9	74.7	75.1	75.3	75.4	75.4	75.4	75.5	75.5	75.5
≥ 1500	67.0	70.8	72.8	73.5	75.5	75.6	76.3	77.8	78.3	78.5	78.6	78.6	78.6	78.7	78.7	78.7
≥ 1200	68.1	71.8	74.2	75.1	77.3	77.5	78.5	80.0	80.8	81.0	81.1	81.1	81.1	81.2	81.2	81.2
≥ 1000	68.4	72.4	74.7	75.8	78.2	78.4	79.6	81.2	81.9	82.4	82.5	82.5	82.5	82.6	82.6	82.6
≥ 900	68.8	72.9	75.3	76.5	78.8	79.0	80.3	82.0	82.8	83.2	83.5	83.5	83.5	83.7	83.7	83.7
≥ 800	68.9	73.3	75.8	77.1	79.7	79.9	81.3	83.2	84.1	84.6	85.3	85.3	85.3	85.4	85.4	85.4
≥ 700	69.0	73.4	76.0	77.3	80.0	80.3	81.9	84.0	84.9	85.7	87.0	87.0	87.1	87.2	87.2	87.2
≥ 600	69.0	73.5	76.1	77.4	80.3	80.6	82.3	84.6	85.7	86.7	88.1	88.2	88.3	88.4	88.4	88.4
≥ 500	69.0	73.7	76.3	78.1	81.2	81.5	83.8	86.2	87.3	88.4	89.9	90.0	90.2	90.6	90.6	90.6
≥ 400	69.0	73.8	76.5	78.2	81.4	81.9	84.3	87.1	88.4	89.6	91.8	92.0	92.5	92.9	92.9	92.9
≥ 300	69.0	73.8	76.5	78.2	81.4	81.9	84.3	87.1	88.4	89.6	91.8	92.0	92.5	92.9	92.9	92.9
≥ 200	69.1	73.9	76.6	78.3	81.5	82.3	84.7	88.3	90.8	92.4	95.2	95.4	96.5	96.9	98.6	99.7
≥ 100	69.1	73.9	76.6	78.3	81.5	82.3	84.7	88.3	90.8	92.4	95.2	95.4	96.5	96.9	98.6	99.7
≥ 0	69.1	73.9	76.6	78.3	81.5	82.3	84.7	88.3	90.8	92.4	95.2	95.4	96.5	96.9	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

9-76

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	≥ 10	20	≥ 5	24	20	20	20	20	20	20	20	20	20	20	20	20
NO CEILING	43.8	44.6	44.8	45.1	45.5	45.5	45.6	45.9	45.9	45.9	46.1	46.1	46.2	46.2	46.3	46.5
≥ 2500	45.2	46.3	46.8	47.0	47.4	47.4	47.5	47.8	47.8	47.8	48.1	48.1	48.2	48.2	48.3	48.4
≥ 1800	45.2	46.3	46.8	47.0	47.4	47.4	47.5	47.8	47.8	47.8	48.1	48.1	48.2	48.2	48.3	48.4
≥ 1600	45.4	46.6	47.0	47.2	47.6	47.6	47.7	48.1	48.1	48.1	48.3	48.3	48.4	48.4	48.5	48.6
≥ 1400	46.8	48.0	48.4	48.6	49.0	49.0	49.1	49.5	49.5	49.5	49.7	49.7	49.8	49.8	49.9	50.0
≥ 1200	47.0	48.2	48.6	48.8	49.2	49.2	49.4	49.7	49.7	49.7	49.9	49.9	50.0	50.0	50.1	50.2
≥ 1000	47.8	49.0	49.5	49.7	50.1	50.1	50.2	50.5	50.5	50.5	50.8	50.8	50.9	50.9	51.0	51.1
≥ 900	48.6	49.8	50.2	50.4	50.9	50.9	51.0	51.3	51.3	51.3	51.5	51.5	51.6	51.6	51.7	51.8
≥ 800	49.5	50.6	51.1	51.3	51.7	51.7	51.8	52.2	52.2	52.2	52.4	52.4	52.5	52.5	52.6	52.7
≥ 700	50.4	51.6	52.0	52.3	52.7	52.7	52.8	53.1	53.1	53.1	53.3	53.3	53.4	53.4	53.5	53.7
≥ 600	50.9	52.0	52.5	52.8	53.3	53.3	53.4	53.8	53.8	53.8	54.0	54.0	54.1	54.1	54.2	54.3
≥ 500	52.7	54.3	54.7	55.2	55.7	55.7	55.8	56.1	56.1	56.1	56.3	56.3	56.5	56.5	56.6	56.7
≥ 450	53.7	55.4	55.8	56.2	56.9	56.9	57.0	57.3	57.3	57.3	57.6	57.6	57.7	57.7	57.8	58.0
≥ 400	55.1	56.9	57.3	57.7	58.4	58.4	58.5	58.8	58.8	58.8	59.1	59.1	59.2	59.2	59.4	59.5
≥ 350	55.9	58.1	58.5	58.9	59.6	59.6	59.7	60.0	60.0	60.0	60.3	60.3	60.4	60.4	60.5	60.6
≥ 300	58.1	60.6	61.4	61.8	62.6	62.6	62.7	63.0	63.0	63.0	63.3	63.3	63.4	63.4	63.5	63.7
≥ 250	59.4	62.7	63.8	64.5	65.7	65.7	65.8	66.3	66.3	66.3	66.7	66.7	66.8	66.8	66.9	67.0
≥ 200	61.6	65.2	66.6	67.4	69.4	69.6	70.0	70.8	70.8	70.8	71.1	71.1	71.2	71.2	71.3	71.4
≥ 180	62.3	65.9	67.3	68.4	70.4	70.6	71.2	72.0	72.0	72.0	72.4	72.4	72.5	72.5	72.6	72.7
≥ 150	64.2	67.8	69.6	70.6	73.1	73.3	74.0	75.6	75.9	76.0	76.3	76.3	76.5	76.5	76.6	76.7
≥ 120	65.3	69.0	70.9	71.9	74.6	74.9	76.0	77.7	78.1	78.3	78.6	78.6	78.7	78.7	78.8	78.9
≥ 100	66.1	70.0	71.8	73.0	76.1	76.5	78.1	79.8	80.1	80.3	80.6	80.6	80.8	80.8	80.9	81.0
≥ 90	66.5	70.5	72.5	73.8	76.9	77.3	78.9	80.9	81.2	81.4	82.2	82.2	82.3	82.3	82.4	82.5
≥ 80	66.7	70.8	72.9	74.2	77.5	78.1	79.7	81.9	82.4	82.6	83.4	83.4	83.7	83.7	83.8	83.9
≥ 70	66.7	70.8	72.9	74.3	77.6	78.2	79.8	82.3	82.7	83.1	84.9	84.9	85.2	85.2	85.3	85.4
≥ 60	66.8	70.9	73.0	74.4	78.1	78.5	80.4	83.4	83.9	84.4	86.3	86.3	86.6	86.6	86.7	86.8
≥ 50	66.8	70.9	73.1	74.7	79.2	79.8	82.3	85.4	86.1	86.9	88.8	88.8	89.1	89.4	89.6	89.7
≥ 40	66.8	71.0	73.2	74.8	79.5	80.1	82.7	86.3	87.2	88.0	90.1	90.2	90.5	90.8	91.0	91.1
≥ 30	66.9	71.1	73.3	74.9	79.7	80.3	83.3	87.0	88.3	89.1	91.7	91.9	92.6	92.8	93.2	93.5
≥ 20	66.9	71.1	73.3	74.9	79.7	80.3	83.4	87.6	88.9	90.0	93.0	93.4	94.9	95.2	96.9	97.5
≥ 10	66.9	71.1	73.3	74.9	79.7	80.3	83.4	87.7	89.0	90.1	93.1	93.5	95.1	95.4	98.0	99.8
≥ 0	66.9	71.1	73.3	74.9	79.7	80.3	83.4	87.7	89.0	90.1	93.1	93.5	95.1	95.4	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/AC

CEILING VERSUS VISIBILITY

94836 K I SA-YER AFB HI

9-78

MA

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0800

CEILING FEET	VISIBILITY IN STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	41.6	42.9	43.2	43.4	43.6	43.6	43.6	43.8	43.8	43.9	43.9	43.9	44.0	44.0	44.0	44.1
≥ 2000	42.8	44.3	44.6	45.0	45.2	45.2	45.2	45.4	45.4	45.5	45.5	45.5	45.6	45.6	45.6	45.7
≥ 1800	4	4.1	44.6	44.8	45.2	45.4	45.4	45.6	45.6	45.7	45.7	45.7	45.9	45.9	45.9	46.0
≥ 1600	43.3	44.8	45.1	45.5	45.7	45.7	45.7	46.0	46.0	46.1	46.1	46.1	46.2	46.2	46.2	46.3
≥ 1400	44.2	45.9	46.2	46.5	46.8	46.8	46.8	47.0	47.0	47.1	47.1	47.1	47.3	47.3	47.3	47.4
≥ 1200	45.3	47.1	47.6	48.0	48.3	48.3	48.3	48.5	48.5	48.7	48.7	48.7	48.8	48.8	48.8	48.9
≥ 1000	45.9	47.9	48.3	48.8	49.1	49.2	49.2	49.4	49.4	49.5	49.5	49.5	49.6	49.6	49.6	49.7
≥ 800	46.3	48.3	48.8	49.2	49.5	49.6	49.6	49.8	49.8	49.9	49.9	49.9	50.1	50.1	50.1	50.2
≥ 600	47.5	49.5	49.9	50.4	50.7	50.8	50.9	51.1	51.1	51.2	51.3	51.3	51.5	51.5	51.5	51.7
≥ 400	48.3	50.4	50.8	51.2	51.7	51.8	51.9	52.1	52.1	52.2	52.3	52.3	52.4	52.4	52.4	52.6
≥ 200	48.8	50.8	51.2	51.7	52.1	52.2	52.3	52.5	52.5	52.6	52.7	52.7	52.9	52.9	52.9	53.1
≥ 100	50.1	52.4	53.0	53.4	53.8	54.0	54.1	54.4	54.4	54.5	54.6	54.6	54.7	54.7	54.7	54.9
≥ 50	51.3	54.0	54.6	55.0	55.9	56.1	56.3	56.5	56.5	56.6	56.7	56.7	56.8	56.8	56.8	57.1
≥ 25	52.2	55.1	55.7	56.1	57.4	57.7	58.0	58.4	58.4	58.6	58.8	58.8	58.9	58.9	58.9	59.1
≥ 15	53.2	56.1	56.6	57.1	58.3	58.7	59.0	59.5	59.5	59.6	59.8	59.8	60.0	60.0	60.0	60.2
≥ 10	54.7	58.0	58.9	59.4	61.7	62.0	62.3	63.0	63.0	63.1	63.3	63.3	63.4	63.4	63.4	63.6
≥ 7	55.9	60.2	61.2	61.8	63.7	65.0	65.6	66.5	66.5	66.7	67.0	67.0	67.1	67.1	67.1	67.3
≥ 5	57.1	61.7	63.0	63.8	67.3	67.6	68.4	69.3	69.5	69.8	70.0	70.0	70.2	70.2	70.2	70.4
≥ 3	57.4	62.0	63.4	64.3	67.8	68.1	68.9	69.9	70.1	70.3	70.5	70.5	70.7	70.7	70.7	70.9
≥ 2	58.9	63.9	65.4	66.3	70.0	70.3	71.7	72.9	73.5	73.7	74.1	74.1	74.3	74.3	74.3	74.5
≥ 1	60.0	65.1	66.6	67.7	71.8	72.2	73.8	75.0	75.8	76.1	76.5	76.6	76.9	77.0	77.0	77.2
≥ 1/2	61.4	66.5	68.0	69.1	73.2	73.7	75.5	76.7	77.5	77.8	78.4	78.5	78.7	78.8	78.8	79.0
≥ 1/4	61.9	67.2	68.7	69.8	74.2	74.7	76.4	77.8	78.7	79.0	80.1	80.2	80.4	80.5	80.5	80.7
≥ 1/8	62.1	67.4	69.0	70.2	74.7	75.5	77.2	78.8	79.9	80.2	81.5	81.6	81.8	81.9	81.9	82.1
≥ 1/16	62.5	67.8	69.4	70.8	75.8	76.5	78.3	80.2	81.4	82.2	84.0	84.1	84.4	84.5	84.5	84.7
≥ 1/32	62.5	68.1	69.8	71.2	76.4	77.3	79.5	81.2	82.3	83.5	85.5	85.6	86.1	86.2	86.2	86.4
≥ 1/64	62.6	68.4	70.1	71.5	77.0	77.9	80.9	82.9	84.5	86.1	88.3	88.4	88.9	89.1	89.3	89.6
≥ 1/128	62.8	68.5	70.3	71.8	77.5	78.5	81.7	83.9	85.7	87.3	89.5	89.6	90.2	90.6	91.0	91.3
≥ 1/256	62.8	68.6	70.6	72.3	78.3	79.3	82.7	84.8	86.9	89.0	91.2	91.4	92.5	93.0	93.8	94.3
≥ 1/512	62.8	68.6	70.6	72.3	78.4	79.4	83.0	85.8	87.8	90.5	92.9	93.1	94.5	95.3	97.0	98.3
≥ 1/1024	62.8	68.6	70.6	72.3	78.4	79.4	83.0	85.8	87.8	90.5	93.0	93.2	94.6	95.5	97.7	100.0
≥ 1/2048	62.8	68.6	70.6	72.3	78.4	79.4	83.0	85.8	87.8	90.5	93.0	93.2	94.6	95.5	97.7	100.0

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/NAF

CEILING VERSUS VISIBILITY

94826

K I SAWYER AFB MI

9-72

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
≥ 25000	36.9	38.3	38.5	38.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 20000	38.6	40.2	40.4	40.5	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≥ 18000	39.0	40.6	40.9	41.1	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 16000	39.5	41.2	41.4	41.6	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 14000	40.3	42.0	42.3	42.5	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥ 12000	41.7	43.7	43.9	44.1	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 10000	43.1	45.1	45.3	45.5	46.0	46.0	46.0	46.0	46.0	46.0	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 9000	44.1	46.1	46.2	46.6	47.1	47.1	47.1	47.1	47.1	47.1	47.2	47.3	47.3	47.3	47.3	47.3	47.3
≥ 8000	46.8	48.8	49.0	49.2	49.8	49.8	49.8	49.8	49.8	49.8	49.9	50.0	50.0	50.0	50.0	50.0	50.0
≥ 7000	47.6	49.7	49.9	50.1	50.6	50.6	50.6	50.6	50.6	50.6	50.8	50.9	50.9	50.9	50.9	50.9	50.9
≥ 6000	48.1	50.3	50.5	50.8	51.4	51.4	51.4	51.4	51.4	51.4	51.5	51.6	51.6	51.6	51.6	51.6	51.6
≥ 5000	49.2	51.9	52.2	52.4	53.2	53.2	53.2	53.2	53.2	53.2	53.3	53.4	53.4	53.4	53.4	53.4	53.4
≥ 4500	49.9	52.8	53.1	53.3	54.2	54.2	54.2	54.2	54.2	54.2	54.3	54.4	54.4	54.4	54.4	54.4	54.4
≥ 4000	51.4	54.8	55.2	55.5	56.3	56.3	56.3	56.3	56.3	56.3	56.7	56.8	56.8	56.8	56.8	56.8	56.8
≥ 3500	51.8	55.4	55.9	56.1	57.1	57.1	57.1	57.2	57.3	57.3	57.4	57.5	57.5	57.5	57.5	57.5	57.5
≥ 3000	53.2	57.3	58.0	58.3	59.9	59.9	60.0	60.2	60.3	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5
≥ 2500	55.5	60.2	61.3	61.6	63.4	63.4	63.8	64.1	64.3	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 2000	57.3	62.2	63.3	63.7	65.9	65.9	66.5	66.8	67.0	67.5	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 1800	57.7	62.6	63.8	64.1	66.3	66.3	66.9	67.2	67.4	68.0	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 1500	59.9	65.4	67.0	67.8	70.3	70.3	71.1	71.5	72.0	73.0	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 1200	61.3	67.0	68.8	69.8	72.8	72.8	73.8	74.5	75.4	76.5	77.3	77.3	77.3	77.3	77.3	77.4	77.4
≥ 1000	61.8	67.5	69.4	70.5	73.7	73.7	74.9	75.8	76.7	78.2	79.2	79.2	79.4	79.4	79.5	79.5	79.5
≥ 900	62.4	68.1	69.9	71.1	74.4	74.5	76.0	76.9	77.8	79.5	80.6	80.6	80.8	80.8	80.9	80.9	80.9
≥ 800	62.7	68.4	70.2	71.6	75.3	75.4	76.9	77.7	79.0	80.6	81.9	82.0	82.5	82.5	82.7	82.7	82.7
≥ 700	62.9	68.9	70.9	72.5	76.5	76.7	78.4	79.2	80.5	82.3	84.0	84.1	84.5	84.5	84.8	84.8	84.8
≥ 600	63.1	69.5	71.5	73.1	77.2	77.4	79.2	80.2	81.6	83.3	85.1	85.2	85.6	85.6	85.9	85.9	85.9
≥ 500	63.3	69.8	71.8	73.9	78.4	78.7	80.9	82.5	84.0	85.7	88.1	88.2	89.1	89.2	90.3	90.3	90.3
≥ 400	63.3	69.9	71.9	74.0	78.8	79.1	81.4	83.2	84.7	86.6	89.5	89.7	90.6	90.8	91.9	91.9	91.9
≥ 300	63.3	69.9	71.9	74.1	78.9	79.4	81.6	83.9	85.5	87.4	90.4	90.9	91.9	92.5	93.9	94.2	94.2
≥ 200	63.3	69.9	71.9	74.1	78.9	79.5	81.7	84.2	85.8	88.1	91.9	92.4	93.9	94.6	96.5	98.0	98.0
≥ 100	63.3	69.9	71.9	74.1	78.9	79.5	81.7	84.2	85.8	88.1	92.0	92.5	94.2	94.9	97.6	100.0	100.0
≥ 0	63.3	69.9	71.9	74.1	78.9	79.5	81.7	84.2	85.8	88.1	92.0	92.5	94.2	94.9	97.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

9-70

MAC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥1/512
NO CEILING	37.5	37.5	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
≥20000	39.9	40.0	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
≥15000	40.3	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
≥10000	40.8	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥7500	41.7	41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥5000	42.2	42.3	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥4000	43.5	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥3000	44.8	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥2500	46.2	46.3	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥2000	48.2	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥1800	50.0	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥1600	51.8	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥1400	51.9	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥1200	53.1	53.9	54.2	54.2	54.2	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥1000	54.7	55.6	55.9	55.9	55.9	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥900	58.2	60.1	60.5	60.6	60.9	61.0	61.0	61.2	61.2	61.3	61.4	61.4	61.4	61.4	61.4	61.4
≥800	60.8	63.4	64.1	64.4	64.7	65.1	65.5	65.8	65.8	65.9	66.0	66.0	66.0	66.0	66.0	66.0
≥700	63.2	66.6	67.7	68.2	68.6	68.9	69.6	70.2	70.2	70.5	70.6	70.8	70.8	70.8	70.8	70.8
≥600	63.5	67.1	68.3	68.7	69.1	69.5	70.1	70.9	70.9	71.2	71.4	71.4	71.4	71.4	71.4	71.4
≥500	67.1	71.1	72.4	73.1	73.9	74.5	75.6	76.6	76.6	77.0	77.2	77.3	77.5	77.5	77.6	77.6
≥400	68.9	74.0	75.5	76.2	77.3	78.1	79.4	80.3	80.3	80.8	81.0	81.1	81.3	81.3	81.4	81.4
≥300	69.6	75.2	76.9	77.8	79.2	80.0	81.5	82.5	82.5	82.9	83.3	83.4	83.8	83.8	83.9	83.9
≥200	70.0	75.8	77.6	78.6	80.0	80.9	82.5	83.4	83.4	83.9	84.3	84.4	84.8	84.8	84.9	84.9
≥150	70.3	76.6	78.5	79.8	81.3	82.2	83.8	84.7	84.7	85.2	85.7	85.8	86.6	86.6	86.7	86.7
≥100	70.5	76.6	78.5	79.9	81.7	82.6	84.4	85.8	85.8	86.6	87.3	87.5	88.3	88.4	88.5	88.5
≥75	70.3	76.8	78.8	80.3	82.4	83.2	85.2	86.7	86.8	87.6	88.5	88.7	89.5	89.6	89.7	89.7
≥50	70.5	77.1	79.1	80.6	82.9	83.9	86.0	88.0	88.4	89.5	90.8	91.0	92.0	92.2	92.4	92.4
≥25	70.5	77.1	79.1	80.6	83.2	84.2	86.5	88.7	89.2	90.3	91.3	92.0	93.1	93.2	93.4	93.4
≥10	70.5	77.1	79.1	80.6	83.3	84.3	86.7	89.5	90.2	91.3	93.2	93.7	95.1	95.3	95.7	96.5
≥5	70.5	77.1	79.1	80.6	83.3	84.3	86.7	89.5	90.3	91.4	93.5	94.1	95.5	95.7	96.9	98.8
≥1	70.5	77.1	79.1	80.6	83.3	84.3	86.7	89.5	90.3	91.4	93.7	94.2	95.7	95.9	97.2	100.0
≥0	70.5	77.1	79.1	80.6	83.3	84.3	86.7	89.5	90.3	91.4	93.7	94.2	95.7	95.9	97.2	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835 K I SAWYER AFB MI

9-70

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

CEILING FEET	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
≥ 1000	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 800	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 600	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥ 400	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 200	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
≥ 100	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
≥ 80	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥ 60	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
≥ 40	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 20	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 10	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 5	55.2	55.5	55.5	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 3	56.0	56.3	56.3	56.4	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 2	57.4	57.7	57.7	57.8	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 1	59.0	59.6	59.6	59.7	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 0	62.5	63.8	64.2	64.4	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 0.5	65.7	67.8	68.7	68.9	69.8	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 0.25	68.9	71.5	72.9	73.1	74.4	74.4	74.7	74.9	75.2	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 0.1	70.0	72.6	74.2	74.4	75.7	75.7	76.0	76.3	76.6	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 0.05	72.8	76.1	78.6	79.1	80.6	80.8	81.5	81.8	82.1	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 0.025	73.8	77.8	80.6	81.2	82.9	83.1	83.9	84.2	84.5	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 0.01	74.2	78.6	81.6	82.1	84.3	84.6	85.9	86.3	86.8	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 0.005	74.4	78.8	81.9	82.5	84.7	85.0	86.3	86.8	87.2	87.9	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 0.0025	74.5	79.1	82.5	83.0	85.4	85.7	87.2	87.9	88.5	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 0.001	74.5	79.1	82.5	83.0	85.7	86.0	87.7	88.6	89.2	90.0	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 0.0005	74.6	79.4	82.8	83.4	86.3	86.7	88.5	89.3	90.2	91.0	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 0.00025	74.6	79.5	83.1	83.7	87.0	87.3	89.2	90.4	91.5	92.2	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 0.0001	74.6	79.5	83.1	83.7	87.0	87.3	89.2	90.4	91.5	92.2	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 0.00005	74.6	79.5	83.1	83.9	87.2	87.5	89.7	91.3	92.6	93.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 0.000025	74.6	79.5	83.1	83.9	87.2	87.5	89.7	91.3	92.6	93.4	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 0.00001	74.6	79.5	83.1	83.9	87.2	87.5	89.7	91.3	92.6	93.4	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 0.000005	74.6	79.5	83.1	83.9	87.2	87.5	89.7	91.3	92.6	93.4	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 0.0000025	74.6	79.5	83.1	83.9	87.2	87.5	89.7	91.3	92.6	93.4	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 0.000001	74.6	79.5	83.1	83.9	87.2	87.5	89.7	91.3	92.6	93.4	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/ETAC

CEILING VERSUS VISIBILITY

94836 K I SAAYEK AFB MI

9-76

1A5

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1800-2000

CEILING FEET	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
NO CEILING	44.2	44.4	44.7	44.7	44.8	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥ 2000	46.8	47.1	47.4	47.4	47.5	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 1800	47.4	47.7	48.1	48.1	48.2	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
≥ 1600	47.5	47.8	48.2	48.2	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 1400	48.7	49.0	49.4	49.4	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 1200	50.0	50.4	50.9	50.9	51.0	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
≥ 1000	51.6	52.0	52.5	52.5	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 800	51.8	52.3	52.8	52.8	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 600	53.1	53.7	54.3	54.3	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 400	54.1	54.6	55.3	55.3	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 200	55.7	56.2	56.9	56.9	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 100	57.2	57.8	58.5	58.5	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 5000	58.1	58.9	59.6	59.6	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 4500	59.5	60.4	61.1	61.1	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 4000	60.9	61.8	62.5	62.5	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 3500	63.3	64.6	65.4	65.4	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 3000	66.0	68.3	69.6	70.0	70.9	70.9	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 2500	68.3	71.5	73.1	73.7	74.6	74.6	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 2000	69.2	72.7	74.3	74.6	75.9	76.0	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 1800	71.8	75.6	77.5	78.3	79.5	79.6	80.4	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 1600	73.2	77.7	79.9	80.8	82.3	82.4	83.4	83.7	83.7	83.7	83.8	83.9	83.9	84.1	84.1	84.1	84.1
≥ 1400	73.5	78.5	80.9	81.7	83.2	83.3	84.4	84.8	85.3	85.8	86.1	86.1	86.3	86.3	86.3	86.3	86.3
≥ 1200	73.5	78.5	80.9	81.7	83.5	83.7	84.7	85.2	85.6	86.1	86.6	86.6	86.8	86.8	86.8	86.8	86.8
≥ 1000	73.8	78.9	81.4	82.6	84.5	84.6	85.7	86.3	86.8	87.3	88.1	88.3	88.5	88.5	88.5	88.5	88.5
≥ 800	73.8	78.9	81.4	82.6	84.7	84.8	86.0	86.7	87.1	87.7	88.6	88.8	89.0	89.1	89.1	89.1	89.1
≥ 600	73.8	78.9	81.4	82.6	84.7	84.8	86.2	87.0	87.6	88.4	89.4	89.6	89.8	89.9	89.9	89.9	89.9
≥ 400	74.1	79.2	81.8	83.0	85.8	86.0	87.8	88.9	89.6	90.4	91.7	92.0	92.9	93.0	93.0	93.0	93.0
≥ 200	74.1	79.2	81.8	83.0	85.9	86.2	88.1	89.2	90.0	91.0	92.6	92.9	93.9	94.3	94.5	94.5	94.5
≥ 100	74.1	79.4	81.9	83.2	86.1	86.6	88.4	89.6	90.3	91.4	93.3	93.7	94.8	95.6	96.1	96.6	96.6
≥ 0	74.1	79.4	81.9	83.2	86.2	86.7	88.5	89.7	90.4	91.7	93.8	94.2	96.0	97.2	98.2	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835

K I SAWYER AFB MI

9-76

MAK

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
2700	48.6	49.7	50.0	50.0	50.1	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
2600	50.4	51.5	51.8	51.8	51.9	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.2
2500	51.0	52.0	52.4	52.4	52.5	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.7
2400	51.3	52.4	52.7	52.7	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	53.0
2300	51.7	53.0	53.3	53.3	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.7
2200	53.1	54.4	54.7	54.7	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.1
2100	53.4	54.7	55.1	55.1	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.4
2000	53.8	55.4	55.7	55.7	55.8	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.0
1900	54.3	55.9	56.2	56.2	56.3	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6
1800	55.3	56.9	57.2	57.2	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.5
1700	56.7	58.4	58.7	58.7	58.8	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	59.0
1600	58.9	60.6	61.0	61.0	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.3
1500	60.0	61.7	62.0	62.0	62.3	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.5
1400	61.9	63.8	64.1	64.1	64.5	64.5	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.8
1300	62.6	64.4	64.8	65.1	65.5	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.8
1200	64.9	66.8	67.3	67.6	68.5	68.6	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9
1100	67.3	69.7	70.6	71.2	72.4	72.6	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.1
1000	69.4	72.0	73.3	74.1	76.0	76.2	77.0	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.5
900	70.4	73.3	74.6	75.4	77.3	77.5	78.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.8
800	71.6	74.6	75.9	76.8	79.1	79.4	80.1	80.6	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.0
700	72.9	76.0	77.3	78.2	80.5	81.0	81.9	82.7	82.8	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.0
600	73.3	76.6	78.0	79.1	81.6	82.2	83.3	84.6	84.7	84.9	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.5
500	73.3	76.6	78.0	79.1	81.7	82.3	83.5	84.8	84.9	85.2	85.5	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.8
400	73.5	76.9	78.4	79.7	82.5	83.0	84.6	86.0	86.3	86.6	87.1	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.6
300	73.8	77.2	78.9	80.2	83.0	83.5	85.3	86.7	87.1	87.4	88.3	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.8
200	73.8	77.2	78.9	80.2	83.3	84.0	86.0	88.3	88.7	89.0	90.3	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0
100	74.1	77.5	79.2	80.5	84.2	85.2	87.4	89.7	90.1	90.4	91.8	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.9
0	74.1	77.5	79.2	80.5	84.2	85.2	87.5	90.2	90.6	91.0	92.8	93.2	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	94.0
2700	74.1	77.6	79.4	80.6	84.3	85.3	87.7	90.9	91.5	92.0	93.9	94.4	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.6
2600	74.1	77.6	79.4	80.6	84.3	85.3	88.0	91.1	91.9	92.8	94.7	95.3	96.7	97.2	98.4	98.8												
2500	74.1	77.6	79.4	80.6	84.3	85.3	88.0	91.1	92.0	93.1	95.1	95.6	97.0	98.0	99.1	99.6												
2400	74.1	77.6	79.4	80.6	84.3	85.3	88.0	91.1	92.0	93.1	95.1	95.6	97.0	98.0	99.1	100.0												

TOTAL NUMBER OF OBSERVATIONS

930

USAF ETAC

FORM 44

D-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

CEILING VERSUS VISIBILITY

94935 K I SA-YFR AFB MI

9-74

MAC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

	2	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
42.3	43.1	43.4	43.5	43.6	43.6	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9
44.2	45.0	45.4	45.5	45.7	45.7	45.7	45.8	45.8	45.8	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	46.0
44.6	45.4	45.8	45.9	46.1	46.1	46.1	46.2	46.2	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.4
44.8	45.7	46.0	46.2	46.4	46.4	46.4	46.5	46.5	46.5	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.7
45.9	46.8	47.1	47.3	47.5	47.5	47.5	47.6	47.6	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.8
46.9	47.9	48.3	48.4	48.6	48.6	48.6	48.7	48.7	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.9
48.1	49.1	49.5	49.6	49.8	49.8	49.8	49.9	49.9	49.9	50.0	50.0	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.1
48.7	49.8	50.2	50.3	50.5	50.5	50.5	50.6	50.6	50.6	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
50.0	51.1	51.5	51.6	51.8	51.9	51.9	52.0	52.0	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.2	52.2	52.2
51.0	52.2	52.6	52.7	53.0	53.0	53.0	53.1	53.1	53.1	53.2	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3
52.0	53.3	53.7	53.8	54.1	54.1	54.2	54.2	54.2	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.5
53.7	55.3	55.7	55.9	56.2	56.2	56.2	56.3	56.3	56.4	56.4	56.4	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5
54.5	56.2	56.6	56.8	57.2	57.2	57.3	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.6
55.9	57.8	58.2	58.4	58.9	59.0	59.1	59.2	59.2	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.5
56.9	59.9	59.4	59.6	60.2	60.3	60.4	60.5	60.5	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.8
59.4	61.8	62.5	62.8	63.8	63.8	64.9	64.1	64.2	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5
61.5	64.7	65.8	66.3	67.0	67.7	68.0	68.3	68.3	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7	68.7
63.8	67.4	68.6	69.4	71.1	71.2	71.8	72.3	72.4	72.7	72.8	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
64.5	69.2	69.6	70.2	72.0	72.1	72.8	73.3	73.5	73.7	73.8	73.8	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0
66.7	70.7	72.4	73.2	75.2	75.5	76.3	77.2	77.5	77.8	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.2	78.2	78.2
67.9	72.3	74.2	75.1	77.4	77.7	78.8	79.8	80.2	80.5	80.8	80.8	80.9	80.9	80.9	81.0	81.0	81.1	81.1	81.1
68.5	73.2	75.2	76.2	78.7	79.0	80.4	81.5	81.9	82.5	82.9	82.9	82.9	82.9	83.1	83.1	83.1	83.2	83.2	83.2
68.8	73.5	75.6	76.6	79.3	79.7	81.1	82.2	82.7	83.3	83.9	83.9	83.9	84.1	84.1	84.1	84.1	84.2	84.2	84.2
69.1	73.9	76.1	77.3	80.1	80.5	82.0	83.3	84.0	84.5	85.3	85.4	85.4	85.7	85.7	85.7	85.7	85.8	85.8	85.8
69.2	74.1	76.3	77.6	80.6	81.1	82.8	84.2	84.8	85.6	86.8	86.9	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4
69.2	74.2	76.5	77.8	81.1	81.6	83.4	85.1	85.9	86.7	88.1	88.2	88.6	88.7	88.7	88.7	88.8	88.8	88.8	88.8
69.4	74.5	76.8	78.3	82.0	82.5	84.0	85.7	87.5	88.5	89.6	91.4	91.4	91.4	91.5	91.5	91.5	91.6	91.6	91.6
69.4	74.6	76.9	78.3	82.2	82.8	84.2	85.2	87.5	88.5	89.6	91.4	91.4	91.4	91.5	91.5	91.5	91.6	91.6	91.6
69.4	74.6	77.0	78.5	82.4	83.1	84.6	86.1	87.4	88.4	89.4	90.7	92.8	93.1	94.1	94.4	95.0	95.5	95.5	95.5
69.4	74.6	77.0	78.5	82.4	83.2	84.7	86.4	87.4	88.4	89.8	91.3	92.7	94.1	95.4	96.1	97.4	98.4	98.4	98.4
69.4	74.6	77.0	78.5	82.4	83.2	84.7	86.4	87.4	88.4	89.8	91.3	92.7	94.1	95.4	96.1	97.4	98.4	98.4	98.4
69.4	74.6	77.0	78.5	82.4	83.2	84.7	86.4	87.4	88.4	89.8	91.3	92.7	94.1	95.4	96.1	97.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 7438

USAF ETAC G-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/AC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

-9-78

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS.

0000-0200

CEILING FEET	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
NO CEILING	54.4	55.4	55.6	56.0	55.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	
≥ 7000	55.3	56.3	56.5	56.8	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	
≥ 6000	55.4	56.4	56.6	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	
≥ 5000	55.7	56.7	57.0	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	
≥ 4000	56.2	57.2	57.4	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	
≥ 3000	56.7	58.0	58.2	58.5	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	
≥ 2000	59.0	60.2	60.4	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	
≥ 1000	59.0	61.1	61.3	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	
≥ 800	62.0	63.2	63.5	63.8	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	
≥ 600	64.2	65.5	66.1	66.4	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
≥ 400	66.0	67.4	67.9	68.4	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	
≥ 300	69.2	70.9	71.3	71.9	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	
≥ 200	69.6	71.3	71.9	72.4	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	
≥ 100	71.1	72.9	73.4	74.0	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	
≥ 0	72.3	74.2	74.7	75.3	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	
≥ 0	74.3	76.4	77.2	77.8	78.5	78.6	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	
≥ 0	74.7	76.9	77.8	78.9	79.9	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	
≥ 0	76.1	78.4	79.4	80.7	82.0	82.4	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	
≥ 0	76.3	78.6	79.6	81.1	82.2	82.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	
≥ 0	77.4	79.9	80.9	82.3	83.5	84.0	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	
≥ 0	77.6	80.6	81.6	83.2	84.8	85.2	85.5	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	
≥ 0	77.8	81.0	82.2	83.9	85.3	86.0	86.3	86.4	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	
≥ 0	78.0	81.2	82.4	84.1	85.9	86.3	86.7	86.8	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	
≥ 0	78.1	81.4	82.6	84.3	86.2	86.7	87.0	87.1	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	
≥ 0	78.1	81.8	83.0	84.9	87.2	87.7	88.0	88.4	88.5	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	
≥ 0	78.1	82.1	83.3	85.4	87.9	88.5	89.1	89.5	90.1	90.9	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	
≥ 0	78.2	82.2	83.4	85.7	88.4	89.5	90.2	90.8	91.4	92.2	92.7	93.4	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	
≥ 0	78.2	82.3	83.6	86.0	88.8	89.9	91.1	91.8	92.7	93.4	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	
≥ 0	78.2	82.3	83.6	86.0	88.9	90.0	91.4	92.2	93.2	94.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	
≥ 0	78.2	82.3	83.6	86.0	88.9	90.0	91.4	92.2	93.2	94.8	95.9	96.0	97.4	98.1	98.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
≥ 0	78.2	82.3	83.6	86.0	88.9	90.0	91.4	92.2	93.2	94.8	95.9	96.0	97.4	98.1	98.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2482 K I SAWYER AFB MI

49-7b

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512	≥ 1/1024
NO CEILING	53.1	54.2	54.7	54.9	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 20000	54.2	55.3	55.8	56.0	56.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 18000	54.2	55.3	55.8	56.0	56.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 16000	54.2	55.3	55.8	56.0	56.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 14000	55.2	56.3	56.8	57.0	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 12000	56.0	57.2	57.7	57.9	58.2	58.3	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 10000	57.3	58.6	59.0	59.2	59.6	59.7	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 8000	57.8	59.0	59.4	59.7	60.0	60.1	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 6000	58.9	60.2	60.7	60.9	61.2	61.3	61.4	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 4000	60.3	61.7	62.1	62.3	62.7	62.8	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 2000	61.8	63.1	63.7	63.9	64.3	64.4	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 1000	64.8	66.3	67.0	67.3	67.8	67.9	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 500	65.0	66.8	67.4	67.9	68.3	68.4	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 250	67.0	68.8	69.6	70.1	70.6	70.7	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 150	68.0	70.3	71.2	71.8	72.2	72.3	72.4	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 100	70.2	72.8	73.8	74.4	75.2	75.3	75.4	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 50	71.7	74.2	75.7	76.3	77.3	77.4	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 25	73.2	76.3	78.0	79.0	80.1	80.3	80.4	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 15	73.4	76.7	78.3	79.3	80.4	80.7	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 10	73.7	76.9	78.6	79.7	80.9	81.1	81.2	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 5	74.7	78.3	80.0	81.3	82.7	82.9	83.0	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 2	74.7	78.6	80.4	81.8	83.2	83.4	83.6	84.0	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 1	74.7	78.6	80.7	82.0	83.6	83.8	83.9	84.3	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 1/2	75.0	79.0	81.4	83.2	84.8	85.1	85.2	85.7	85.9	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1/4	75.2	79.7	82.1	84.1	85.9	86.2	86.7	87.2	87.4	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1/8	75.2	79.7	82.1	84.1	86.4	87.0	87.6	88.2	88.4	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 1/16	75.2	80.2	82.8	85.0	87.6	88.1	89.0	90.0	90.3	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 1/32	75.2	80.2	82.8	85.0	88.1	88.8	89.8	90.8	91.2	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1/64	75.2	80.2	82.8	85.0	88.7	89.4	90.7	91.7	92.6	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1/128	75.2	80.2	82.8	85.0	88.7	89.4	90.8	92.4	93.4	94.1	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1/256	75.2	80.2	82.8	85.0	88.7	89.4	90.8	92.4	93.6	94.4	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1/512	75.2	80.2	82.8	85.0	88.7	89.4	90.8	92.4	93.6	94.4	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1/1024	75.2	80.2	82.8	85.0	88.7	89.4	90.8	92.4	93.6	94.4	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1/2048	75.2	80.2	82.8	85.0	88.7	89.4	90.8	92.4	93.6	94.4	95.0	95.0	95.0	95.0	95.0	95.0	95.0

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94834 K I SA'YER AFB MI

9-70

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0800

CEILING FEET	≥ 10	≥ 20	≥ 30	≥ 40	≥ 50	≥ 60	≥ 70	≥ 80	≥ 90	≥ 100	≥ 120	≥ 140	≥ 160	≥ 180	≥ 200	≥ 250	≥ 300	≥ 350	≥ 400
NO CEILING	46.0	47.7	48.3	48.3	48.8	48.8	48.8	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 20000	48.1	50.0	50.7	50.7	51.1	51.1	51.1	51.3	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
≥ 18000	48.1	50.0	50.7	50.7	51.1	51.1	51.1	51.3	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
≥ 16000	48.2	50.1	50.8	50.8	51.2	51.2	51.2	51.4	51.4	51.4	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 14000	48.9	50.8	51.4	51.4	51.9	51.9	51.9	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 12000	51.4	53.4	54.1	54.1	54.6	54.6	54.6	54.8	54.8	54.9	54.9	54.9	54.9	54.9	55.0	55.0	55.0	55.0	55.0
≥ 10000	53.4	55.6	56.3	56.3	56.8	56.8	56.8	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.2	57.2	57.2	57.2	57.2
≥ 9000	54.1	56.2	57.0	57.0	57.4	57.4	57.4	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.9	57.9	57.9	57.9	57.9
≥ 8000	55.4	57.6	58.4	58.4	58.9	58.9	58.9	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.3	59.3	59.3	59.3	59.3
≥ 7000	56.6	58.8	59.7	59.7	60.1	60.1	60.1	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.6	60.6	60.6	60.6	60.6
≥ 6000	57.9	60.1	61.0	61.0	61.4	61.4	61.4	61.7	61.7	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0
≥ 5000	60.8	63.2	64.6	64.6	65.0	65.0	65.0	65.2	65.2	65.4	65.4	65.4	65.4	65.4	65.7	65.7	65.7	65.7	65.7
≥ 4500	61.2	63.7	65.0	65.0	65.4	65.4	65.4	65.7	65.7	65.9	66.0	66.0	66.0	66.0	66.1	66.1	66.1	66.1	66.1
≥ 4000	62.6	65.0	66.3	66.3	66.9	66.9	66.9	67.2	67.2	67.4	67.6	67.6	67.6	67.6	67.7	67.7	67.7	67.7	67.7
≥ 3500	63.3	66.0	67.6	67.6	68.1	68.1	68.1	68.4	68.4	68.7	68.8	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9
≥ 3000	66.0	69.2	70.9	70.9	71.4	71.4	71.4	71.8	71.8	72.0	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.2
≥ 2500	67.2	70.4	72.1	72.3	72.9	72.9	73.1	73.4	73.4	73.7	73.8	73.8	73.8	73.8	73.9	73.9	73.9	73.9	73.9
≥ 2000	70.4	74.0	75.7	75.9	76.6	76.6	76.8	77.1	77.2	77.4	77.6	77.6	77.6	77.6	77.7	77.7	77.7	77.7	77.7
≥ 1800	71.0	74.6	76.2	76.4	77.2	77.2	77.4	77.8	78.1	78.3	78.4	78.4	78.4	78.4	78.6	78.6	78.6	78.6	78.6
≥ 1500	72.4	76.0	77.8	78.0	78.8	78.8	79.0	79.3	79.7	79.9	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1
≥ 1200	73.8	77.7	79.6	79.8	80.6	80.6	80.8	81.1	81.4	81.7	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9	81.9
≥ 1000	74.2	78.7	80.6	81.0	81.9	81.9	82.4	82.8	83.1	83.3	83.7	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8
≥ 900	74.4	79.1	81.0	81.4	82.3	82.3	82.9	83.2	83.8	84.0	84.3	84.3	84.3	84.3	84.4	84.4	84.4	84.4	84.4
≥ 800	74.4	79.6	81.7	82.2	83.1	83.1	83.9	84.3	84.9	85.1	85.4	85.4	85.4	85.4	85.7	85.7	85.7	85.7	85.7
≥ 700	74.6	79.7	81.8	82.3	83.4	83.4	84.2	84.7	85.2	85.8	86.2	86.2	86.2	86.4	86.6	86.6	86.6	86.6	86.6
≥ 600	74.8	80.0	82.1	82.7	84.3	84.7	86.2	86.9	87.4	88.2	88.8	88.8	88.8	89.1	89.2	89.2	89.2	89.2	89.2
≥ 500	74.9	80.2	82.4	83.1	84.9	85.6	87.1	87.8	88.3	89.1	89.8	89.8	89.8	90.2	90.4	90.6	90.6	90.6	90.6
≥ 400	74.9	80.6	82.8	83.7	85.6	86.7	88.2	89.0	89.9	90.9	91.7	91.7	91.7	92.1	92.3	92.4	92.4	92.4	92.4
≥ 300	74.9	80.6	82.9	83.9	86.0	87.2	88.9	90.0	90.9	92.2	93.4	93.4	93.4	94.1	94.7	95.1	95.1	95.1	95.1
≥ 200	74.9	80.6	82.9	83.9	86.0	87.2	88.9	90.3	91.4	93.1	94.6	94.9	96.0	96.8	98.1	98.7	98.7	98.7	98.7
≥ 100	74.9	80.6	82.9	83.9	86.0	87.2	88.9	90.3	91.4	93.1	94.7	95.0	96.2	97.0	98.7	100.0	100.0	100.0	100.0
≥ 0	74.9	80.6	82.9	83.9	86.0	87.2	88.9	90.3	91.4	93.1	94.7	95.0	96.2	97.0	98.7	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

9-70

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	44.0	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 2500	47.8	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 180	48.3	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥ 600	49.1	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 1400	49.7	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
≥ 2000	51.2	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 900	53.6	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 500	54.3	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 800	55.8	57.0	57.1	57.1	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 700	57.2	58.4	58.6	58.6	58.7	58.7	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 600	58.2	59.4	59.6	59.6	59.8	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 500	60.3	61.7	62.1	62.3	63.3	63.3	64.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 450	60.9	62.2	62.7	62.9	63.9	63.9	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 400	62.2	64.1	64.0	64.8	65.9	65.9	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 350	62.6	64.6	65.0	65.2	66.3	66.3	66.6	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 300	64.7	66.8	67.2	67.6	68.7	68.7	68.9	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 250	67.2	69.4	69.9	70.2	71.3	71.3	71.5	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 200	70.1	72.4	73.0	73.3	74.7	74.7	74.9	75.1	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 1800	70.6	73.1	73.7	74.1	75.4	75.4	75.7	75.9	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 1500	72.7	75.3	75.9	76.3	77.8	77.9	78.4	78.7	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 1200	75.1	77.9	78.6	79.1	80.8	80.9	81.6	81.8	81.9	82.1	82.1	82.1	82.2	82.2	82.2	82.2
≥ 1000	76.0	79.0	79.7	80.3	82.2	82.3	83.0	83.2	83.4	83.8	84.0	84.0	84.1	84.1	84.1	84.1
≥ 900	76.2	79.3	80.0	80.7	82.6	82.7	83.3	83.6	83.8	84.1	84.6	84.6	84.7	84.7	84.7	84.7
≥ 800	76.7	80.1	81.0	81.8	83.8	83.9	84.6	85.1	85.4	85.8	86.3	86.3	86.4	86.4	86.4	86.4
≥ 700	76.9	80.8	81.8	82.7	84.9	85.2	86.1	86.7	87.1	87.7	88.4	88.4	88.6	88.6	88.6	88.6
≥ 600	77.1	81.2	82.2	83.1	85.3	85.7	86.8	87.3	87.8	88.3	89.3	89.3	89.4	89.4	89.4	89.4
≥ 500	77.1	81.6	82.7	83.9	86.4	87.0	88.6	89.2	89.9	90.4	91.6	91.6	91.8	91.9	92.1	92.1
≥ 400	77.2	81.7	82.8	84.0	86.7	87.3	89.3	90.6	91.8	92.9	94.0	94.0	94.2	94.3	94.6	94.6
≥ 300	77.2	81.7	82.8	84.0	86.8	87.6	89.8	91.2	92.7	94.2	95.3	95.3	95.8	96.1	96.3	96.3
≥ 200	77.2	81.7	82.8	84.1	86.9	87.7	89.9	91.3	93.0	95.0	96.3	96.4	97.6	98.4	99.4	99.7
≥ 100	77.2	81.7	82.8	84.1	86.9	87.7	89.9	91.3	93.0	95.0	96.3	96.4	97.6	98.4	99.4	100.0
≥ 0	77.2	81.7	82.8	84.1	86.9	87.7	89.9	91.3	93.0	95.0	96.3	96.4	97.6	98.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 900

CEILING VERSUS VISIBILITY

94835

K I SAEYER AFB MI

9-7c

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400.

[illegible]TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835 K I SAWYER AFB MI

69-72

AP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS.

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING ≥ 20000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 8000	50.8	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
IV 6000	51.8	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 4000	52.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
IV 2000	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
IV 1000	53.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 800	55.1	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
IV 600	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
IV 400	58.0	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 300	59.8	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 200	61.9	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
IV 100	63.1	64.6	64.6	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0	65.0	65.0
IV 80	63.4	64.9	64.9	65.0	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.3	65.3	65.3
IV 60	65.7	67.1	67.1	67.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.6	67.6	67.6
IV 40	66.4	68.0	68.0	68.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.6	68.6	68.6
IV 30	69.2	71.1	71.1	71.2	71.7	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.1	72.1	72.1
IV 20	73.2	75.3	75.3	75.4	75.9	76.1	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.6	76.6	76.6
IV 10	75.4	78.0	78.3	78.9	79.6	79.8	80.1	80.4	80.4	80.4	80.6	80.6	80.6	80.8	80.8	80.8
IV 8	76.2	78.9	79.2	79.8	80.4	80.7	81.2	81.6	81.6	81.6	81.7	81.7	81.7	81.9	81.9	81.9
IV 6	77.4	80.7	81.1	81.8	82.6	82.8	83.3	83.7	83.7	83.7	83.8	83.8	84.0	84.0	84.0	84.0
IV 4	79.2	82.7	83.2	83.9	84.8	85.0	85.6	85.9	85.9	85.9	86.0	86.0	86.2	86.2	86.2	86.2
IV 3	79.3	82.9	83.4	84.2	85.3	85.6	86.1	86.4	86.7	86.7	86.9	86.9	87.1	87.1	87.1	87.1
IV 2	79.6	83.4	84.0	84.8	85.9	86.1	86.7	87.0	87.2	87.2	87.4	87.4	87.7	87.7	87.7	87.7
IV 1	79.7	83.9	84.4	85.2	86.4	86.7	87.2	87.7	87.9	87.9	88.1	88.1	88.3	88.3	88.3	88.3
IV 0	79.7	84.0	84.7	85.6	86.9	87.1	87.7	88.2	88.4	88.4	88.7	88.7	89.1	89.1	89.1	89.1
IV 0	79.7	84.2	84.9	85.4	87.4	88.0	88.7	89.6	90.0	90.2	90.6	90.7	91.1	91.1	91.1	91.1
IV 0	79.7	84.2	85.0	86.0	88.0	88.7	89.6	90.7	91.8	92.4	93.0	93.2	94.1	94.3	94.4	94.4
IV 0	79.7	84.2	85.2	86.2	88.3	89.1	90.0	91.1	92.6	93.2	93.8	94.0	94.9	95.1	95.2	95.2
IV 0	79.7	84.2	85.3	86.3	88.6	89.6	90.4	91.7	93.2	94.4	95.0	95.3	96.3	96.8	96.9	96.9
IV 0	79.7	84.2	85.3	86.3	88.6	89.6	90.6	92.0	93.6	95.1	95.9	96.2	97.6	98.0	98.4	99.1
IV 0	79.7	84.2	85.3	86.3	88.6	89.6	90.6	92.0	93.6	95.1	96.0	96.3	97.7	98.1	98.7	100.0
IV 0	79.7	84.2	85.3	86.3	88.6	89.6	90.6	92.0	93.6	95.1	96.0	96.3	97.7	98.1	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835 K I SAWYER AFB MI

9-78

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	21	20	25	24	23	22	21	20	25	24	23	22	21	20	25	24
NO CEILING	49.4	49.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 2000	54.0	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 1800	54.4	54.4	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 1600	55.0	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 1400	55.9	55.9	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 1200	57.7	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 1000	58.6	58.8	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 900	59.3	59.6	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 800	61.4	62.1	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 700	63.9	64.6	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 600	66.9	67.8	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 500	68.3	69.4	69.9	70.0	70.0	70.0	70.0	70.1	70.1	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 400	68.7	69.9	70.3	70.4	70.4	70.4	70.4	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 300	70.4	71.8	72.2	72.3	72.3	72.3	72.3	72.4	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 200	70.9	72.7	73.1	73.2	73.3	73.3	73.4	73.6	73.6	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 100	72.3	74.6	75.2	75.3	75.7	75.7	75.8	75.9	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 50	76.1	78.8	79.7	79.8	80.6	80.7	80.8	80.9	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 0	77.8	80.7	81.8	81.9	82.8	82.9	83.0	83.1	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 1800	78.3	81.2	82.3	82.4	83.3	83.4	83.6	83.7	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1600	79.1	82.2	83.3	83.4	84.4	84.6	84.8	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1400	80.0	83.2	84.3	84.4	85.4	85.6	85.8	85.9	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1200	80.2	83.4	84.6	84.7	85.7	85.8	86.0	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 1000	80.2	83.6	84.7	84.8	85.8	85.9	86.1	86.2	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 900	80.2	83.6	85.0	85.1	86.4	86.6	86.8	86.9	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 800	80.2	83.7	85.2	85.3	86.7	86.8	87.2	87.6	87.7	88.0	88.0	88.3	88.4	88.4	88.4	88.4
≥ 700	80.2	83.7	85.2	85.3	86.8	86.9	87.3	87.8	87.9	88.2	88.2	88.7	88.9	88.9	88.9	88.9
≥ 600	80.3	84.1	85.8	85.9	87.8	88.3	89.1	89.7	90.0	90.4	90.4	91.0	91.2	91.4	91.7	91.7
≥ 500	80.3	84.1	85.9	86.0	87.9	88.4	89.3	90.3	91.0	91.4	91.6	92.2	92.6	92.9	93.2	93.2
≥ 400	80.3	84.1	85.9	86.2	88.1	88.9	90.2	91.3	92.2	92.9	93.1	93.8	94.6	95.0	95.3	95.4
≥ 300	80.3	84.1	85.9	86.2	88.1	88.9	90.2	91.4	92.3	93.3	93.9	94.6	95.6	96.2	96.8	98.0
≥ 200	80.3	84.1	85.9	86.2	88.1	88.9	90.2	91.6	92.4	93.4	94.0	94.7	95.7	96.6	97.6	100.0
≥ 100	80.3	84.1	85.9	86.2	88.1	88.9	90.2	91.6	92.4	93.4	94.0	94.7	95.7	96.6	97.6	100.0
≥ 0	80.3	84.1	85.9	86.2	88.1	88.9	90.2	91.6	92.4	93.4	94.0	94.7	95.7	96.6	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835

K I SAWYER AFB MI

9-76

APG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

CEILING FEET	VISIBLE STATURE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2
NO FOG	54.9	55.6	55.8	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 2000	56.4	57.1	57.3	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 1800	56.7	57.3	57.6	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥ 1600	56.8	57.4	57.7	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 1400	57.3	58.0	58.2	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 1200	58.4	59.1	59.3	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 1000	61.0	61.8	62.0	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 800	62.3	63.1	63.3	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 600	64.1	65.0	65.6	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 400	65.6	66.4	67.0	67.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 200	68.2	69.2	69.8	70.3	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 100	70.6	71.9	72.6	73.1	73.3	73.3	73.4	73.4	73.4	73.4	73.6	73.6	73.6	73.6	73.6	73.6
≥ 50	71.3	72.8	73.4	74.0	74.2	74.2	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 25	72.7	74.1	74.8	75.3	75.6	75.6	75.8	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 12.5	73.2	74.8	75.4	76.0	76.2	76.2	76.4	76.4	76.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 6.25	75.6	77.2	77.9	78.4	78.8	78.8	79.3	79.3	79.3	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 3.125	77.8	80.1	80.9	81.6	82.0	82.0	82.7	82.7	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 1.5625	78.4	81.1	82.0	82.8	83.3	83.3	84.1	84.1	84.1	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 0.78125	78.8	81.6	82.4	83.2	83.9	83.9	84.7	84.7	84.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 0.390625	79.0	82.3	83.2	84.0	85.0	85.0	85.9	85.9	85.9	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 0.1953125	79.2	83.0	83.9	84.7	85.8	85.8	86.7	86.7	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 0.09765625	79.8	83.8	84.7	85.4	86.6	86.6	87.6	87.6	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 0.048828125	80.1	84.1	85.2	86.0	87.1	87.2	88.2	88.2	88.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 0.0244140625	80.4	84.6	85.9	86.8	88.1	88.2	89.2	89.2	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 0.01220703125	80.6	84.9	86.2	87.1	88.4	88.6	89.6	89.6	89.7	90.3	90.4	90.6	90.6	90.6	90.6	90.6
≥ 0.006103515625	80.6	84.9	86.2	87.1	88.4	88.8	89.8	90.0	90.1	90.5	90.9	91.1	91.1	91.1	91.1	91.1
≥ 0.0030517578125	80.6	85.1	86.6	87.6	88.9	89.4	90.6	90.8	90.9	91.8	92.0	92.2	92.6	92.6	92.6	92.6
≥ 0.00152587890625	80.6	85.1	86.6	87.7	89.3	90.1	91.4	91.8	92.1	93.1	93.8	94.0	94.3	94.3	94.3	94.3
≥ 0.000762939453125	80.6	85.1	86.6	88.0	89.7	90.4	92.2	92.8	93.2	94.7	95.7	95.9	96.2	96.2	96.2	96.2
≥ 0.0003814697265625	80.6	85.1	86.6	88.0	89.7	90.4	92.2	93.0	93.6	95.1	96.1	96.4	97.3	97.6	98.6	99.8
≥ 0.00019073486328125	80.6	85.1	86.6	88.0	89.7	90.4	92.2	93.0	93.6	95.1	96.1	96.4	97.3	97.6	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-73

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

VISIBILITY (FEET)																	
	≥ 0	≥ 1	≥ 2	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	≥ 8	≥ 9	≥ 10	≥ 11	≥ 12	≥ 13	≥ 14	≥ 15	≥ 16
NO CEILING	49.2	49.9	50.1	50.1	50.3	50.3	51.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 2000	51.9	52.6	52.8	52.9	53.0	53.0	53.0	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
IV 8000	52.3	53.0	53.2	53.3	53.4	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
IV 6000	52.7	53.4	53.7	53.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 4000	53.4	54.1	54.4	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 2000	54.7	55.6	55.8	55.9	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
IV 1000	56.5	57.4	57.7	57.8	57.9	57.9	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
IV 800	57.3	58.2	58.5	58.6	58.7	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
IV 600	58.9	60.0	60.3	60.4	60.6	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IV 400	60.6	61.7	62.1	62.2	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IV 300	62.5	63.7	64.1	64.3	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7
IV 200	64.7	66.1	66.7	67.0	67.4	67.4	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.7	67.7	67.7
IV 1500	65.1	66.6	67.2	67.5	67.9	67.9	68.0	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2
IV 1000	66.7	68.4	69.0	69.3	69.7	69.8	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1
IV 800	67.5	69.4	70.0	70.4	70.8	70.8	70.9	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.2	71.2
IV 600	69.9	72.0	72.8	73.1	73.7	73.7	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.2	74.2	74.2	74.2
IV 400	72.2	74.5	75.4	75.9	76.6	76.7	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.2
IV 300	74.3	77.0	78.1	78.7	79.5	79.6	80.0	80.1	80.1	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 200	74.8	77.6	78.7	79.3	80.2	80.3	80.7	80.8	80.9	81.0	81.0	81.0	81.0	81.1	81.1	81.1	81.1
IV 1500	75.9	78.9	80.1	80.7	81.7	81.9	82.3	82.5	82.6	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8
IV 1000	77.1	80.5	81.7	82.4	83.5	83.7	84.2	84.3	84.4	84.5	84.6	84.6	84.6	84.6	84.6	84.7	84.7
IV 800	77.5	81.1	82.3	83.1	84.3	84.5	85.0	85.2	85.4	85.6	85.7	85.7	85.7	85.8	85.8	85.8	85.8
IV 600	77.6	81.3	82.7	83.5	84.7	84.9	85.5	85.7	85.9	86.0	86.2	86.2	86.2	86.3	86.3	86.3	86.3
IV 400	77.8	81.7	83.2	84.2	85.5	85.7	86.3	86.6	86.8	87.0	87.2	87.2	87.2	87.2	87.3	87.3	87.3
IV 300	77.9	82.1	83.7	84.7	86.2	86.4	87.1	87.4	87.7	88.2	88.5	88.5	88.5	88.7	88.7	88.7	88.7
IV 200	78.0	82.2	83.8	84.8	86.6	87.0	87.8	88.4	88.7	89.2	89.6	89.7	90.0	90.0	90.0	90.0	90.0
IV 1500	78.0	82.5	84.2	85.4	87.4	88.0	89.1	89.7	90.3	91.0	91.5	91.6	92.0	92.2	92.3	92.3	92.3
IV 1000	78.1	82.6	84.4	85.6	87.8	88.7	90.0	90.9	91.7	92.5	93.1	93.2	93.7	93.8	94.0	94.0	94.0
IV 800	78.1	82.7	84.4	85.8	88.1	89.1	90.7	91.7	92.7	93.8	94.6	94.7	95.4	95.7	96.0	96.0	96.0
IV 600	78.1	82.7	84.4	85.8	88.2	89.1	90.8	92.1	93.2	94.7	95.6	95.9	97.0	97.4	98.2	98.9	98.9
IV 400	78.1	82.7	84.4	85.8	88.2	89.1	90.8	92.1	93.2	94.7	95.7	96.0	97.2	97.7	98.7	99.9	99.9
IV 300	78.1	82.7	84.4	85.8	88.2	89.1	90.8	92.1	93.2	94.7	95.7	96.0	97.2	97.7	98.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7199

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94635 K I SAN YEK AFB HI

9-7

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-0200

CEILING FEET	20	24	25	24	21	22	24	25	2	2	24	2	2	25	2	2
NO CEILING	55.4	56.1	57.3	57.6	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.2	58.3
≥ 2500	56.7	57.6	58.8	59.1	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.7	59.8
≥ 3000	56.9	57.8	59.0	59.4	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.9	60.0
≥ 4000	57.0	58.0	59.1	59.5	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.1
≥ 5000	57.8	58.8	60.0	60.3	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.9	61.0
≥ 6000	59.2	60.4	61.6	61.9	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.5	62.6
≥ 7000	63.3	64.5	66.0	66.3	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.9	67.0
≥ 8000	64.2	65.7	67.2	67.5	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.1	68.2
≥ 9000	64.9	66.5	68.1	68.4	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.2
≥ 10000	66.1	67.6	69.2	69.5	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3	70.4
≥ 11000	67.8	69.4	71.0	71.4	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.5
≥ 12000	69.9	71.4	73.1	73.7	74.6	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.9	75.1
≥ 13000	70.9	72.5	74.2	74.7	75.8	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.2
≥ 14000	71.4	73.3	75.1	75.6	77.0	77.1	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.4	77.5
≥ 15000	72.6	74.5	76.2	76.8	78.3	78.4	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.7	78.8
≥ 16000	74.1	76.1	78.2	78.9	80.5	80.8	80.8	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.2	81.3
≥ 17000	75.7	78.0	80.0	81.1	83.0	83.2	83.2	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.7	83.8
≥ 18000	76.8	79.2	81.4	82.5	84.6	84.8	84.9	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.4	85.5
≥ 19000	76.8	79.4	81.5	82.6	84.7	84.9	85.1	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5	85.6
≥ 20000	77.4	80.1	82.3	83.3	85.6	85.8	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.5	86.6
≥ 21000	77.7	80.4	82.7	83.9	86.2	86.5	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.1	87.2
≥ 22000	78.2	80.9	83.1	84.3	86.9	87.1	87.3	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.8	88.0
≥ 23000	78.2	80.9	83.2	84.5	87.1	87.3	87.5	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.2	88.3
≥ 24000	78.2	80.9	83.2	84.6	87.3	87.5	87.7	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.4	88.5
≥ 25000	78.3	81.0	83.7	85.1	87.7	88.0	88.3	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.9	89.0
≥ 26000	78.3	81.0	83.7	85.2	88.1	88.3	88.6	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.2	89.4
≥ 27000	78.3	81.0	83.7	85.2	88.1	88.3	88.9	89.4	89.5	89.5	89.7	89.7	89.7	89.7	89.8	89.9
≥ 28000	78.4	81.1	83.8	85.3	88.3	88.6	89.6	90.2	90.5	90.8	91.2	91.2	91.4	91.4	91.5	91.6
≥ 29000	78.4	81.1	83.8	85.4	88.7	89.2	90.4	91.9	92.4	92.7	93.5	93.5	93.8	93.8	93.9	94.0
≥ 30000	78.4	81.1	83.9	85.5	88.9	89.6	91.0	92.9	93.9	94.3	95.4	95.6	96.7	96.9	97.3	97.8
≥ 31000	78.4	81.1	83.9	85.5	89.1	89.8	91.2	93.1	94.1	94.5	95.6	95.8	97.0	97.3	98.7	99.9
≥ 32000	78.4	81.1	83.9	85.5	89.1	89.8	91.2	93.1	94.1	94.5	95.6	95.8	97.0	97.3	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/VAC

CEILING VERSUS VISIBILITY

94835 K I SAWYER AFB HI

9-76

DAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-0500

CEILING FEET	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
NO CEILING 2 2000	44.7	46.8	47.5	48.2	48.6	48.6	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.5
2 2000	47.4	50.0	51.0	51.6	52.0	52.0	52.7	52.9	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.3
2 2000	47.6	50.2	51.2	51.8	52.3	52.3	52.9	53.1	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.5
2 2000	47.7	50.3	51.3	51.9	52.4	52.4	53.0	53.2	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.7
2 2000	48.3	51.1	52.0	52.8	53.2	53.2	53.9	54.1	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.5
2 2000	49.2	52.2	53.1	53.9	54.3	54.3	54.9	55.2	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.6
2 2000	53.4	56.5	57.4	58.2	58.7	58.7	59.4	59.6	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.2
2 2000	54.0	57.1	58.2	58.9	59.6	59.6	60.2	60.4	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.1
2 2000	55.4	58.7	59.8	60.8	61.4	61.4	62.0	62.3	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.9
2 2000	56.6	60.1	61.2	62.2	62.9	62.9	63.5	63.8	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.4
2 2000	58.2	61.8	62.9	63.9	64.7	64.7	65.6	65.8	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.5
2 2000	61.1	64.9	66.1	67.2	68.3	68.3	69.1	69.5	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.2
2 2000	61.6	65.5	66.7	67.7	68.8	68.8	69.7	70.0	70.3	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.8
2 2000	62.5	66.3	67.5	68.6	69.8	69.8	70.6	71.0	71.3	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.7
2 2000	62.7	66.6	67.7	68.8	70.0	70.0	70.9	71.2	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.9
2 2000	63.9	67.8	69.0	70.2	71.4	71.4	72.5	72.9	73.2	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.7
2 2000	65.9	70.1	71.4	72.6	73.9	73.9	74.9	75.4	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.1
2 2000	67.3	71.7	73.2	74.4	75.7	75.7	76.9	77.4	77.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.2
2 2000	68.0	72.4	73.9	75.1	76.5	76.5	77.6	78.2	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	79.0
2 2000	68.9	73.5	75.1	76.3	77.7	77.7	79.0	79.6	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.5
2 2000	69.6	74.4	76.0	77.4	78.8	78.8	80.3	81.0	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	82.0
2 2000	70.1	75.1	76.8	78.2	79.7	79.7	81.3	82.0	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.1
2 2000	70.4	75.5	77.2	78.6	80.1	80.2	81.7	82.5	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.5
2 2000	71.2	76.3	78.1	79.5	81.1	81.2	82.7	83.9	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.9
2 2000	71.2	76.5	78.3	79.7	81.5	81.7	83.4	84.7	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.8
2 2000	71.5	76.9	78.7	80.1	82.0	82.3	84.1	85.5	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.6
2 2000	71.7	77.1	79.2	80.6	82.8	83.0	84.9	87.1	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.4
2 2000	71.8	77.4	79.9	81.4	83.8	84.1	86.5	88.8	89.9	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.6
2 2000	71.8	77.4	80.0	81.5	84.1	84.4	87.1	89.9	91.5	92.0	92.7	92.7	92.7	92.7	92.7	92.7	93.5
2 2000	71.9	77.5	80.1	81.6	84.2	84.6	87.5	90.5	92.8	93.3	94.3	94.7	96.2	96.6	96.6	96.6	98.8
2 2000	71.9	77.5	80.1	81.6	84.2	84.6	87.5	90.5	92.8	93.3	94.3	94.7	96.2	96.7	96.7	96.7	99.9
2 2000	71.9	77.5	80.1	81.6	84.2	84.6	87.5	90.5	92.8	93.3	94.3	94.7	96.2	96.7	96.7	96.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/AC

CEILING VERSUS VISIBILITY

94836

K I SA-YEN AFB MI

9-7

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	≥	26	21	24	21	20	20	2	21	2	21	2	25	21	21
NO CEILING	46.3	46.0	48.4	48.9	49.1	49.1	49.2	49.4	49.4	47.4	49.4	49.4	49.4	49.4	49.4
≥ 2500	49.2	51.1	51.5	52.0	52.3	52.3	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 2000	49.7	51.5	51.9	52.5	52.7	52.7	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 1500	49.8	51.6	52.0	52.6	52.8	52.8	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 1400	50.4	52.3	52.7	53.2	53.4	53.4	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 1300	53.5	55.4	55.8	56.3	56.6	56.6	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 1200	56.0	58.2	58.7	59.2	59.5	59.5	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 1100	56.9	59.0	59.7	60.2	60.4	60.4	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 1000	58.3	60.4	61.1	61.6	61.8	61.8	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 900	59.9	62.3	62.9	63.4	63.7	63.7	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 800	61.6	64.0	64.6	65.2	65.6	65.7	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥ 700	63.0	65.5	66.1	66.7	67.1	67.2	67.3	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5
≥ 600	63.7	66.2	66.9	67.4	67.8	68.0	68.1	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.3
≥ 500	65.3	68.0	68.6	69.1	69.6	69.7	69.8	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1
≥ 400	66.0	68.7	69.4	69.9	70.3	70.4	70.5	70.6	70.8	70.9	70.9	70.9	70.9	70.9	70.9
≥ 300	66.8	69.6	70.5	71.1	71.6	71.7	71.8	71.9	72.0	72.2	72.2	72.2	72.2	72.2	72.2
≥ 200	69.0	72.4	73.3	74.0	74.6	74.7	74.8	74.9	75.1	75.2	75.2	75.2	75.2	75.2	75.2
≥ 1800	70.8	74.2	75.2	75.8	76.5	76.6	76.8	77.0	77.1	77.2	77.2	77.2	77.2	77.2	77.2
≥ 1600	71.8	75.4	76.3	77.0	77.7	77.8	78.2	78.4	78.5	78.7	78.7	78.7	78.7	78.7	78.7
≥ 1400	73.0	76.7	78.0	78.7	79.5	79.6	79.9	80.1	80.3	80.5	80.5	80.5	80.5	80.5	80.5
≥ 1200	73.5	77.3	78.6	79.4	80.2	80.5	80.9	81.1	81.3	81.5	81.7	81.7	81.7	81.7	81.7
≥ 1000	74.9	78.7	80.1	81.1	82.0	82.4	82.7	82.9	83.1	83.4	83.8	83.8	83.8	83.8	83.8
≥ 900	75.6	79.4	80.9	81.9	82.9	83.2	83.5	83.8	84.1	84.4	84.7	84.7	84.7	84.7	84.7
≥ 800	76.0	79.8	81.3	82.4	83.3	83.7	84.0	84.3	84.6	84.9	85.3	85.3	85.3	85.3	85.3
≥ 700	76.3	80.8	82.4	83.4	84.7	85.1	85.6	85.9	86.2	86.6	86.9	86.9	86.9	86.9	86.9
≥ 600	76.9	81.5	83.1	84.4	85.9	86.3	86.9	87.2	87.5	87.8	88.2	88.2	88.2	88.2	88.2
≥ 500	77.1	82.0	83.7	84.9	86.7	87.3	88.1	88.7	89.5	89.8	90.1	90.1	90.1	90.2	90.2
≥ 400	77.2	82.5	84.2	85.5	87.4	88.1	88.9	90.3	91.2	91.7	92.2	92.2	92.2	92.4	92.4
≥ 300	77.3	82.9	84.7	86.2	88.4	89.0	90.5	92.6	93.7	94.7	95.8	95.9	96.9	97.0	97.0
≥ 200	77.3	82.9	84.7	86.2	88.5	89.1	90.6	92.8	94.2	95.3	96.6	96.8	97.8	98.0	98.4
≥ 100	77.3	82.9	84.7	86.2	88.5	89.1	90.6	92.8	94.2	95.3	96.6	96.8	97.8	98.2	98.4
≥ 0	77.3	82.9	84.7	86.2	88.5	89.1	90.6	92.8	94.2	95.3	96.6	96.8	97.8	98.2	98.4

TOTAL NUMBER OF OBSERVATIONS: 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

9483- K I SAWYER AFB MI

9-7-

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10
≥ 5000	47.1	47.4	48.1	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
≥ 4000	49.8	50.2	50.9	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 3000	50.9	51.3	51.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 2000	51.1	51.5	52.2	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 1500	51.7	52.2	52.8	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 1000	54.4	54.8	55.5	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 800	57.0	57.4	58.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 600	57.4	57.8	58.5	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 500	58.8	59.4	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 400	60.6	61.2	61.8	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 300	62.6	63.1	63.8	64.1	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 200	64.0	64.5	65.2	65.5	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 150	64.5	65.1	65.7	66.0	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 100	68.2	68.7	69.6	69.9	70.0	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 80	69.1	69.9	70.6	71.3	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 60	70.9	72.0	72.9	73.4	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 50	73.4	74.5	75.5	76.0	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 40	75.6	77.2	78.1	78.7	79.6	79.7	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 30	76.1	78.0	78.8	79.5	80.3	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 20	78.3	80.3	81.2	81.9	83.0	83.1	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 15	79.6	81.6	82.5	83.2	84.4	84.5	84.9	85.2	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 10	80.2	82.6	83.7	84.4	85.8	85.9	86.3	86.6	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 8	81.1	83.4	84.6	85.5	86.9	87.0	87.4	87.6	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 6	81.8	84.2	85.4	86.3	87.8	88.0	88.4	88.6	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 4	82.2	85.2	86.5	87.4	89.0	89.1	89.7	89.9	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 3	82.6	85.8	87.1	88.2	89.8	89.9	90.6	90.9	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 2	82.8	86.0	87.5	88.6	90.3	90.4	91.5	91.9	92.3	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1	82.9	86.1	88.0	89.2	91.3	91.5	92.9	93.8	94.4	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 0	82.9	86.1	88.0	89.2	91.4	91.9	93.4	94.6	95.5	96.1	96.7	96.7	97.2	97.2	97.2	97.3	97.3	97.3
≥ 0	82.9	86.1	88.0	89.2	91.4	92.0	93.5	94.8	95.9	96.8	97.4	97.7	98.5	98.5	98.5	98.9	99.2	99.9
≥ 0	82.9	86.1	88.0	89.2	91.4	92.0	93.5	94.8	95.9	96.8	97.4	97.7	98.5	98.5	98.5	98.9	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836
STATION

K. I. SAWYER AFB MI
STATION NAME

59-78
YEAR

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
TIME

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	48.7	49.0	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 20000	53.0	53.5	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 18000	53.9	54.4	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 16000	53.9	54.5	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 14000	54.5	55.2	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 12000	56.7	57.4	58.1	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 10000	58.4	59.2	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 9000	59.0	59.9	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 8000	60.1	61.1	61.7	61.7	61.8	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 7000	61.7	62.8	63.4	63.4	63.5	63.5	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 6000	64.2	65.5	66.1	66.1	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 5000	66.1	68.0	68.6	68.6	68.7	68.7	68.7	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 4500	67.8	69.8	70.8	70.8	70.9	70.9	70.9	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 4000	71.3	73.2	74.3	74.3	74.4	74.4	74.4	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 3500	72.6	74.6	75.7	75.7	75.8	75.8	75.8	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 3000	75.5	78.0	79.1	79.1	79.2	79.2	79.2	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 2500	77.3	81.3	82.5	82.5	82.6	82.6	82.6	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 2000	79.9	82.9	84.1	84.1	84.3	84.3	84.3	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 1800	80.3	83.3	84.5	84.5	84.8	84.8	84.8	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 1500	82.2	85.5	86.8	86.8	87.3	87.3	87.3	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 1200	82.8	86.1	87.5	87.5	88.2	88.2	88.2	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 1000	83.0	86.3	88.0	88.0	88.8	88.8	88.8	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 900	83.2	86.7	88.3	88.3	89.1	89.1	89.1	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 800	83.4	87.1	88.7	88.7	89.8	89.8	89.9	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 700	83.7	87.7	89.6	89.6	90.6	90.6	90.9	91.4	91.6	91.7	92.0	92.0	92.0	92.0	92.0	92.0
≥ 600	83.9	88.2	90.1	90.1	91.3	91.3	91.5	92.0	92.3	92.4	92.8	92.8	92.9	92.9	92.9	92.9
≥ 500	84.2	88.7	90.6	90.8	92.0	92.2	92.7	93.3	93.7	93.9	94.6	94.6	94.8	94.8	94.8	94.8
≥ 400	84.2	88.7	90.6	90.8	92.2	92.4	93.4	94.4	94.7	95.2	96.2	96.2	96.5	96.5	96.5	96.5
≥ 300	84.2	88.8	90.8	90.9	92.5	92.8	94.0	95.1	95.8	96.6	97.7	97.8	98.2	98.2	98.2	98.2
≥ 200	84.2	88.8	90.8	90.9	92.5	92.8	94.1	95.4	96.3	97.3	98.5	98.6	99.0	99.0	99.1	99.2
≥ 100	84.2	88.8	90.8	90.9	92.5	92.8	94.1	95.4	96.3	97.3	98.5	98.6	99.1	99.4	99.5	100.0
≥ 0	84.2	88.8	90.8	90.9	92.5	92.8	94.1	95.4	96.3	97.3	98.5	98.6	99.1	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

69-75

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .02	≥ 0
NO CEILING	52.6	53.2	53.5	53.8	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 20000	55.5	56.5	56.8	57.0	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 18000	55.8	56.8	57.1	57.3	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 16000	55.8	56.9	57.2	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 14000	56.3	57.4	57.7	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 12000	58.0	59.1	59.5	59.7	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 10000	60.2	61.5	61.8	62.0	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 9000	61.1	62.4	62.7	62.9	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 8000	62.9	64.4	64.7	64.9	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 7000	66.1	67.7	68.1	68.3	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 6000	67.7	69.6	70.0	70.2	70.3	70.3	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 5000	70.6	72.8	73.3	73.5	73.9	73.9	74.2	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 4500	71.3	73.4	74.0	74.2	74.5	74.5	74.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 4000	74.6	77.0	77.5	77.8	78.2	78.3	78.6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 3500	75.4	78.0	78.5	78.8	79.4	79.4	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3000	77.1	79.7	80.3	80.8	81.4	81.4	81.7	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 2500	79.1	82.0	82.9	83.3	84.0	84.0	84.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 2000	80.1	83.1	84.4	84.8	85.6	85.6	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 1800	80.8	83.8	85.2	85.6	86.3	86.3	86.7	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1500	81.5	84.5	85.9	86.3	87.2	87.2	87.6	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 1200	82.0	85.2	86.6	87.0	87.8	87.8	88.3	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 1000	82.3	85.4	86.8	87.3	88.4	88.4	88.9	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 900	82.4	85.7	87.2	88.0	89.0	89.0	89.7	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 800	82.5	85.8	87.4	88.2	89.2	89.2	90.0	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 700	82.5	86.0	87.7	88.6	90.2	90.2	91.0	91.5	91.5	91.6	91.8	91.8	91.8	91.8	91.8	91.8
≥ 600	82.5	86.1	87.8	88.8	90.4	90.4	91.3	91.9	92.0	92.2	92.4	92.4	92.4	92.4	92.4	92.4
≥ 500	82.5	86.6	88.4	89.6	91.2	91.2	92.4	93.0	93.2	93.4	93.8	93.3	93.9	93.9	93.9	93.9
≥ 400	82.8	87.0	89.0	90.2	92.0	92.0	93.3	94.2	94.4	94.7	95.2	95.2	95.3	95.3	95.3	95.3
≥ 300	82.9	87.1	89.1	90.4	92.5	92.5	94.0	95.1	95.8	96.1	97.1	97.1	97.4	97.5	97.5	97.5
≥ 200	82.9	87.1	89.1	90.4	92.5	92.5	94.1	95.2	95.9	96.3	97.5	97.5	98.1	98.4	98.4	98.6
≥ 100	82.9	87.1	89.1	90.4	92.5	92.5	94.1	95.2	95.9	96.3	97.6	97.6	98.7	99.0	99.0	99.9
≥ 0	82.9	87.1	89.1	90.4	92.5	92.5	94.1	95.2	95.9	96.3	97.6	97.6	98.7	99.0	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB HI

69-78

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥0
NO CEILING	54.2	55.6	56.1	56.6	56.6	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 20000	57.0	58.8	59.4	59.9	59.9	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
IV 18000	57.2	59.0	59.6	60.1	60.1	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 16000	57.2	59.0	59.6	60.1	60.1	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 14000	58.3	60.2	60.8	61.3	61.3	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
IV 12000	59.1	61.1	61.6	62.2	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 10000	62.0	64.3	64.8	65.4	65.4	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IV 9000	63.1	65.6	66.1	66.7	66.7	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
IV 8000	64.8	67.7	68.4	68.9	68.9	69.0	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
IV 7000	66.6	69.7	70.4	71.0	71.0	71.1	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
IV 6000	68.3	71.4	72.3	72.8	72.9	73.0	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
IV 5000	70.3	73.8	74.6	75.5	75.8	75.9	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
IV 4500	70.9	74.4	75.4	76.2	76.6	76.7	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
IV 4000	72.3	76.0	77.1	78.0	78.6	78.7	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 3500	73.8	77.5	78.7	79.7	80.3	80.4	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
IV 3000	75.7	79.5	80.9	81.9	82.9	83.0	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IV 2500	76.8	80.5	82.0	83.2	84.2	84.3	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IV 2000	77.7	81.6	83.2	84.4	85.5	85.6	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
IV 1800	78.3	82.2	83.8	84.9	86.0	86.1	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IV 1500	79.1	83.0	84.6	85.8	86.9	87.0	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
IV 1200	79.6	83.5	85.2	86.3	87.4	87.5	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 1000	79.8	83.8	85.5	86.7	87.7	87.8	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
IV 900	80.0	84.1	85.9	87.1	88.2	88.3	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV 800	80.2	84.3	86.2	87.5	88.6	88.7	89.5	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IV 700	80.2	84.3	86.3	87.7	88.9	89.0	89.8	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
IV 600	80.2	84.3	86.3	87.7	88.9	89.0	89.8	90.1	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3
IV 500	80.2	84.3	86.5	87.8	89.6	89.9	91.0	91.4	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9
IV 400	80.2	84.4	86.7	88.1	89.9	90.5	91.7	92.5	92.9	93.0	93.4	93.4	93.5	93.5	93.5	93.5
IV 300	80.2	84.5	86.9	88.3	90.3	91.0	92.4	93.5	94.3	94.5	95.3	95.3	95.4	95.6	95.6	95.6
IV 200	80.2	84.5	86.9	88.3	90.4	91.1	92.8	94.4	95.5	96.3	97.6	97.6	98.2	98.4	98.5	98.5
IV 100	80.2	84.5	86.9	88.3	90.4	91.1	92.8	94.4	95.5	96.3	97.6	97.6	98.4	98.6	99.2	100.0
IV 0	80.2	84.5	86.9	88.3	90.4	91.1	92.8	94.4	95.5	96.3	97.6	97.6	98.4	98.6	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835

K I SAWYER AFB MI

9-76

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 8	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2
NO CEILING	49.9	51.0	51.6	51.9	52.2	52.2	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.5
≥ 20000	52.6	54.0	54.6	55.0	55.2	55.3	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.6	55.6
≥ 18000	53.0	54.4	55.0	55.4	55.7	55.7	55.8	55.9	55.9	55.9	55.9	56.0	56.0	56.0	56.0	56.0
≥ 15000	53.1	54.5	55.2	55.6	55.8	55.8	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 4000	53.8	55.2	55.9	56.3	56.5	56.6	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9
≥ 12000	55.6	57.1	57.8	58.2	58.4	58.5	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.8
≥ 9000	58.6	60.2	61.0	61.4	61.6	61.7	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0
≥ 8000	59.3	61.0	61.8	62.2	62.5	62.5	62.6	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 7000	60.5	62.4	63.2	63.6	64.0	64.0	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.4	64.4
≥ 6000	62.3	64.3	65.1	65.6	65.9	65.9	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 5000	64.2	66.3	67.1	67.5	68.0	68.1	68.3	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 4500	66.3	68.6	69.5	70.0	70.6	70.7	71.0	71.1	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 4000	67.1	69.5	70.4	71.0	71.6	71.7	71.9	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3
≥ 3500	69.0	71.6	72.6	73.2	74.0	74.1	74.3	74.5	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 3000	70.0	72.6	73.6	74.2	75.1	75.1	75.4	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.8	75.8
≥ 2500	71.6	74.4	75.6	76.2	77.2	77.3	77.6	77.8	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 2000	73.5	76.6	77.8	78.6	79.7	79.7	80.0	80.3	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5
≥ 1800	74.9	78.1	79.5	80.2	81.4	81.5	81.8	82.1	82.2	82.3	82.3	82.3	82.3	82.3	82.4	82.4
≥ 1500	75.4	78.7	80.1	80.8	82.0	82.1	82.5	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.1
≥ 1200	76.5	80.0	81.5	82.3	83.6	83.7	84.1	84.4	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 1000	77.2	80.8	82.3	83.1	84.5	84.6	85.1	85.5	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.9
≥ 900	77.6	81.3	82.9	83.8	85.3	85.4	85.9	86.4	86.6	86.7	86.7	86.8	86.8	86.8	86.8	86.8
≥ 800	77.9	81.7	83.4	84.3	85.9	86.0	86.5	87.0	87.2	87.3	87.4	87.4	87.4	87.4	87.4	87.4
≥ 700	78.3	82.1	83.8	84.8	86.4	86.5	87.1	87.6	87.9	88.0	88.1	88.1	88.1	88.1	88.1	88.1
≥ 600	78.4	82.5	84.3	85.3	87.1	87.3	87.9	88.5	88.7	88.9	89.0	89.0	89.0	89.0	89.1	89.1
≥ 500	78.6	82.8	84.7	85.8	87.7	87.8	88.6	89.1	89.4	89.6	89.7	89.7	89.8	89.8	89.8	89.8
≥ 400	78.7	83.1	85.0	86.1	88.2	88.5	89.5	90.3	90.7	90.9	91.2	91.2	91.3	91.3	91.3	91.4
≥ 300	78.8	83.3	85.4	86.6	88.9	89.2	90.5	91.6	92.2	92.5	93.0	93.0	93.1	93.1	93.2	93.2
≥ 200	78.9	83.4	85.6	86.9	89.4	89.7	91.4	92.9	93.8	94.4	95.2	95.3	95.7	95.7	95.8	95.8
≥ 100	78.9	83.4	85.6	86.9	89.4	89.9	91.7	93.4	94.6	95.4	96.5	96.7	97.6	97.8	98.2	98.6
≥ 0	78.9	83.4	85.6	86.9	89.4	89.9	91.7	93.5	94.7	95.5	96.6	96.8	97.8	98.1	98.9	99.9

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835

K I SAWYER AFB MI

1972

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS:

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING	54.0	55.6	57.0	57.1	58.4	58.6	59.0	59.7	59.8	59.9	59.9	59.9	60.2	60.2	60.6	60.8
≥ 20000	57.4	59.1	60.8	61.0	62.3	62.6	63.0	63.7	63.8	63.9	63.9	63.9	64.2	64.2	64.6	64.8
≥ 18000	57.4	59.1	60.8	61.0	62.3	62.6	63.0	63.7	63.8	63.9	63.9	63.9	64.2	64.2	64.6	64.8
≥ 16000	57.4	59.1	60.8	61.0	62.3	62.6	63.0	63.7	63.8	63.9	63.9	63.9	64.2	64.2	64.6	64.8
≥ 14000	58.2	59.9	61.6	61.8	63.2	63.4	63.9	64.6	64.7	64.8	64.8	64.8	65.1	65.1	65.4	65.7
≥ 12000	59.3	61.0	62.7	62.9	64.3	64.6	65.0	65.7	65.8	65.9	65.9	65.9	66.2	66.2	66.6	66.8
≥ 10000	60.9	62.6	64.2	64.4	65.9	66.1	66.7	67.3	67.4	67.6	67.6	67.6	67.9	67.9	68.2	68.4
≥ 9000	61.3	63.0	64.8	65.0	66.4	66.7	67.2	67.9	68.0	68.1	68.1	68.1	68.4	68.4	68.8	69.0
≥ 8000	62.7	64.3	66.1	66.4	67.9	68.1	68.7	69.3	69.4	69.6	69.6	69.6	69.9	69.9	70.2	70.4
≥ 7000	65.2	67.1	69.1	69.4	70.9	71.1	71.7	72.3	72.4	72.6	72.6	72.6	72.9	72.9	73.2	73.4
≥ 6000	66.9	69.1	71.1	71.4	73.0	73.2	73.8	74.4	74.6	74.7	74.7	74.7	75.0	75.0	75.3	75.6
≥ 5000	68.8	71.3	73.3	73.9	75.7	75.9	76.4	77.1	77.2	77.3	77.3	77.3	77.7	77.7	78.0	78.2
≥ 4500	69.4	72.0	74.0	74.8	76.6	76.8	77.3	78.0	78.1	78.3	78.3	78.3	78.7	78.7	79.0	79.2
≥ 4000	70.3	73.0	75.2	76.0	78.2	78.6	79.1	80.0	80.1	80.3	80.3	80.3	80.8	80.8	81.1	81.3
≥ 3500	71.3	74.1	76.3	77.1	79.3	79.7	80.2	81.1	81.2	81.4	81.4	81.4	81.9	81.9	82.2	82.4
≥ 3000	73.0	76.3	78.6	79.4	81.9	82.2	82.8	83.7	83.8	84.0	84.0	84.0	84.4	84.4	84.8	85.0
≥ 2500	73.8	77.2	79.4	80.3	82.9	83.2	83.8	84.7	84.8	85.0	85.0	85.0	85.4	85.4	85.8	86.0
≥ 2000	74.4	77.9	80.1	81.0	83.6	83.9	84.4	85.4	85.6	85.8	85.8	85.8	86.2	86.2	86.6	86.8
≥ 1800	74.4	77.9	80.1	81.0	83.6	83.9	84.4	85.4	85.6	85.8	85.8	85.8	86.2	86.2	86.6	86.8
≥ 1500	74.9	78.4	80.7	81.6	84.2	84.6	85.1	86.2	86.3	86.6	86.6	86.6	87.0	87.0	87.3	87.6
≥ 1200	75.2	79.0	81.4	82.3	85.1	85.4	86.0	87.2	87.3	87.6	87.6	87.6	88.0	88.0	88.3	88.6
≥ 1000	75.8	79.6	82.0	83.2	86.0	86.4	87.1	88.3	88.4	88.7	88.7	88.7	89.1	89.1	89.4	89.7
≥ 900	76.3	80.2	82.7	83.9	86.7	87.1	87.8	89.0	89.1	89.3	89.4	89.4	89.9	89.9	90.2	90.4
≥ 800	77.0	81.0	83.4	84.7	87.6	88.0	88.7	89.9	90.0	90.2	90.3	90.3	90.9	90.9	91.2	91.4
≥ 700	77.3	81.6	84.0	85.2	88.3	88.8	89.4	90.7	90.8	91.0	91.1	91.1	91.7	91.7	92.0	92.2
≥ 600	77.3	81.6	84.0	85.3	88.6	89.0	89.7	90.9	91.0	91.2	91.3	91.3	91.9	91.9	92.2	92.4
≥ 500	77.6	82.0	84.4	85.8	89.3	90.1	91.0	92.2	92.7	92.9	93.0	93.0	93.6	93.6	93.9	94.2
≥ 400	77.7	82.1	84.7	86.1	89.8	90.6	92.1	93.4	93.9	94.1	94.2	94.2	94.8	94.8	95.1	95.4
≥ 300	77.7	82.3	84.9	86.3	90.1	90.9	92.8	94.4	95.1	95.3	95.4	95.4	96.0	96.0	96.3	96.7
≥ 200	77.7	82.3	84.9	86.3	90.1	90.9	93.0	94.8	95.7	96.0	96.4	96.6	97.1	97.1	97.6	98.3
≥ 100	77.7	82.3	84.9	86.3	90.1	90.9	93.0	94.8	95.7	96.0	96.4	96.6	97.2	97.9	98.9	100.0
≥ 0	77.7	82.3	84.9	86.3	90.1	90.9	93.0	94.8	95.7	96.0	96.4	96.6	97.2	97.9	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC

FORM 501 64

0-14-5 (DL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94826

K I SAWYER AFB MI

9-78

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 0
NO CEILING	49.3	51.1	51.8	52.2	53.4	53.6	54.1	54.7	55.2	55.6	56.0	56.0	56.2	56.3	56.8	57.0
≥ 20000	51.6	53.3	54.2	54.7	55.9	56.0	56.6	57.1	57.7	58.0	58.4	58.4	58.7	58.8	59.2	59.4
≥ 18000	51.8	53.6	54.4	54.9	56.1	56.2	56.8	57.3	57.9	58.2	58.7	58.7	58.9	59.0	59.4	59.7
≥ 16000	51.9	53.7	54.6	55.0	56.2	56.3	56.9	57.4	58.0	58.3	58.8	58.8	59.0	59.1	59.6	59.8
≥ 14000	52.4	54.2	55.1	55.6	56.8	56.9	57.4	58.0	58.6	58.9	59.3	59.3	59.6	59.7	60.1	60.3
≥ 12000	53.9	55.8	56.7	57.1	58.3	58.4	59.0	59.7	60.2	60.6	61.0	61.0	61.2	61.3	61.8	62.0
≥ 10000	55.7	57.8	58.7	59.1	60.4	60.6	61.1	61.8	62.3	62.7	63.1	63.1	63.3	63.4	63.9	64.1
≥ 9000	56.2	58.3	59.2	59.7	61.0	61.1	61.7	62.3	62.9	63.2	63.7	63.7	63.9	64.0	64.4	64.7
≥ 8000	58.4	60.7	61.6	62.0	63.3	63.6	64.1	64.8	65.3	65.7	66.1	66.1	66.3	66.4	66.9	67.1
≥ 7000	60.0	62.2	63.1	63.6	65.1	65.3	65.9	66.7	67.2	67.6	68.0	68.0	68.2	68.3	68.8	69.0
≥ 6000	62.4	64.7	65.7	66.1	67.5	68.0	68.7	69.4	70.0	70.3	70.8	70.8	71.0	71.1	71.6	71.8
≥ 5000	64.3	66.8	68.0	68.4	70.1	70.3	71.0	71.8	72.3	72.7	73.1	73.1	73.3	73.4	73.9	74.1
≥ 4500	64.9	67.6	68.8	69.2	70.9	71.1	71.8	72.6	73.1	73.4	73.9	73.9	74.1	74.2	74.7	74.9
≥ 4000	66.4	69.1	70.6	71.0	72.7	72.9	73.6	74.6	75.1	75.4	75.9	75.9	76.1	76.2	76.7	76.9
≥ 3500	67.6	70.3	71.8	72.2	73.9	74.1	74.8	75.8	76.4	76.8	77.2	77.2	77.4	77.6	78.0	78.2
≥ 3000	68.6	71.3	72.8	73.2	74.9	75.1	75.8	76.8	77.6	77.9	78.3	78.3	78.6	78.7	79.1	79.3
≥ 2500	69.6	72.3	74.0	74.4	76.1	76.3	77.0	78.0	78.8	79.1	79.6	79.6	79.8	79.9	80.3	80.6
≥ 2000	70.2	73.1	74.8	75.2	76.9	77.1	77.8	78.9	79.7	80.0	80.4	80.4	80.7	80.8	81.2	81.4
≥ 1800	70.2	73.1	74.8	75.2	76.9	77.1	77.8	78.9	79.7	80.0	80.4	80.4	80.7	80.8	81.2	81.4
≥ 1500	71.2	74.2	75.9	76.3	78.1	78.3	79.0	80.1	80.9	81.2	81.7	81.7	81.9	82.0	82.4	82.7
≥ 1200	71.6	74.7	76.3	76.8	78.6	78.8	79.4	80.6	81.3	81.7	82.1	82.1	82.3	82.4	82.9	83.1
≥ 1000	72.4	75.8	77.6	78.2	80.2	80.4	81.2	82.3	83.1	83.4	83.9	83.9	84.1	84.2	84.7	84.9
≥ 900	72.9	76.2	78.0	78.7	80.7	80.9	81.8	83.0	83.8	84.1	84.6	84.6	84.8	84.9	85.3	85.6
≥ 800	73.2	76.6	78.3	79.0	81.0	81.2	82.1	83.3	84.1	84.4	84.9	84.9	85.1	85.2	85.7	85.9
≥ 700	73.6	77.0	78.9	79.7	81.8	82.0	82.9	84.1	84.9	85.2	85.7	85.7	85.9	86.0	86.4	86.7
≥ 600	73.7	77.1	79.0	79.8	82.0	82.3	83.2	84.7	85.4	85.8	86.2	86.2	86.4	86.6	87.0	87.2
≥ 500	74.0	77.8	79.7	80.6	83.3	83.8	85.1	86.6	87.3	87.7	88.1	88.1	88.3	88.4	88.9	89.1
≥ 400	74.2	78.1	80.0	80.9	84.3	84.8	86.4	88.4	89.6	90.1	90.7	90.9	91.1	91.2	91.7	91.9
≥ 300	74.6	78.7	80.6	81.6	85.2	85.7	87.8	90.0	91.4	92.3	92.9	93.1	93.3	93.6	94.2	94.6
≥ 200	74.6	78.7	80.6	81.6	85.2	85.7	88.2	90.6	92.2	93.4	94.4	94.9	95.3	95.7	97.0	97.8
≥ 100	74.6	78.7	80.6	81.6	85.2	85.7	88.2	90.6	92.2	93.4	94.4	95.0	95.7	96.3	98.2	99.9
≥ 0	74.6	78.7	80.6	81.6	85.2	85.7	88.2	90.6	92.2	93.4	94.4	95.0	95.7	96.3	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

69-78

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ 0
NO CEILING	45.4	47.4	48.3	48.5	49.2	49.2	49.4	49.6	49.7	49.7	49.8	49.9	50.4	50.4	50.7	50.7
≥ 20000	48.1	50.4	51.4	51.6	52.4	52.4	52.7	53.1	53.3	53.3	53.4	53.5	53.9	53.9	54.3	54.3
IV 18000	48.3	50.7	51.7	51.9	52.7	52.7	53.1	53.4	53.6	53.6	53.7	53.8	54.3	54.3	54.6	54.6
IV 16000	48.3	50.7	51.7	51.9	52.7	52.7	53.1	53.4	53.6	53.6	53.7	53.8	54.3	54.3	54.6	54.6
IV 14000	49.2	51.6	52.7	52.9	53.7	53.7	54.1	54.5	54.7	54.7	54.8	54.9	55.4	55.4	55.7	55.7
IV 12000	51.6	54.3	55.4	55.6	56.4	56.4	56.7	57.2	57.4	57.4	57.5	57.6	58.1	58.1	58.4	58.4
IV 10000	53.7	56.8	58.2	58.4	59.7	59.8	60.2	60.6	60.8	60.8	61.0	61.1	61.5	61.5	61.8	61.8
IV 9000	54.3	57.5	58.8	59.1	60.5	60.6	61.0	61.4	61.6	61.6	61.7	61.8	62.3	62.3	62.6	62.6
IV 8000	56.1	59.3	60.7	61.0	62.5	62.6	63.0	63.5	63.7	63.7	63.8	64.0	64.4	64.4	64.7	64.7
IV 7000	57.8	61.6	63.1	63.3	64.8	65.0	65.3	65.9	66.2	66.2	66.3	66.4	66.9	66.9	67.2	67.2
IV 6000	59.0	63.1	64.5	64.7	66.4	66.6	67.0	67.7	68.1	68.1	68.2	68.3	68.7	68.7	69.1	69.1
IV 5000	61.8	66.5	68.0	68.3	70.0	70.2	70.5	71.3	71.6	71.6	71.7	71.9	72.3	72.3	72.6	72.6
IV 4500	62.2	66.9	68.3	68.6	70.3	70.5	70.9	71.6	72.0	72.0	72.1	72.2	72.6	72.6	73.0	73.0
IV 4000	63.1	67.9	69.6	70.0	71.9	72.1	72.4	73.2	73.5	73.5	73.6	73.7	74.2	74.3	74.6	74.6
IV 3500	63.8	68.6	70.6	71.0	73.0	73.2	73.5	74.3	74.6	74.6	74.7	74.9	75.3	75.4	75.8	75.8
IV 3000	64.4	69.3	71.5	71.9	74.1	74.3	74.6	75.5	76.0	76.1	76.3	76.4	77.0	77.1	77.4	77.4
IV 2500	65.6	70.9	73.1	73.4	75.6	75.9	76.2	77.1	77.5	77.6	77.9	78.0	78.5	78.6	79.0	79.0
IV 2000	67.0	72.2	74.4	74.7	77.0	77.2	77.5	78.4	78.9	79.0	79.2	79.3	79.9	80.0	80.3	80.3
IV 1800	67.1	72.5	74.9	75.2	77.4	77.6	78.0	78.9	79.3	79.4	79.6	79.8	80.3	80.4	80.8	80.8
IV 1500	68.2	73.6	76.0	76.3	78.5	78.8	79.1	80.0	80.4	80.5	80.8	80.9	81.4	81.5	81.9	81.9
IV 1200	69.3	75.0	77.3	77.6	79.9	80.2	80.5	81.4	81.9	82.0	82.2	82.3	82.9	83.0	83.3	83.4
IV 1000	70.0	76.1	78.5	78.9	81.4	81.8	82.2	83.1	83.5	83.6	83.9	84.0	84.5	84.6	85.0	85.1
IV 900	70.4	76.5	79.1	79.4	82.0	82.3	82.8	83.6	84.1	84.2	84.4	84.5	85.1	85.2	85.5	85.7
IV 800	71.2	77.4	80.0	80.3	83.1	83.4	83.9	84.8	85.2	85.3	85.5	85.7	86.2	86.3	86.7	86.8
IV 700	71.7	78.0	80.5	80.9	83.8	84.1	84.5	85.4	85.9	86.0	86.2	86.3	86.9	87.0	87.3	87.4
IV 600	72.3	78.8	81.4	81.8	84.6	85.0	85.5	86.4	86.9	87.0	87.2	87.3	87.9	88.0	88.3	88.4
IV 500	73.0	79.6	82.5	82.9	86.1	86.9	87.7	88.7	89.1	89.2	89.4	89.5	90.1	90.2	90.5	90.7
IV 400	73.3	80.1	83.3	83.8	87.1	88.1	89.2	90.2	90.7	90.9	91.3	91.4	92.0	92.1	92.4	92.5
IV 300	73.3	80.3	83.6	84.2	88.3	88.8	90.1	91.4	92.1	92.8	93.8	94.0	95.0	95.6	96.2	96.6
IV 200	73.3	80.3	83.6	84.2	88.3	88.8	90.1	91.4	92.4	93.4	94.8	95.0	96.1	96.9	97.7	98.8
IV 100	73.3	80.3	83.6	84.2	88.3	88.8	90.1	91.4	92.5	93.5	94.9	95.1	96.3	97.1	98.4	99.9
IV 0	73.3	80.3	83.6	84.2	88.3	88.8	90.1	91.4	92.5	93.5	94.9	95.1	96.3	97.1	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94826 K I SAWYER AFB MI

69-73

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	47.5	48.6	48.8	48.9	49.3	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
≥ 20000	51.5	53.1	53.3	53.4	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 1800	51.8	53.4	53.6	53.7	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 1600	51.9	53.5	53.7	53.8	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
IV 1400	51.9	53.6	53.8	54.2	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 1200	53.3	55.2	55.4	55.7	56.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
IV 1000	56.2	58.3	58.5	59.0	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
IV 900	56.6	59.0	59.2	59.6	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
IV 800	60.8	63.3	63.6	64.2	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
IV 700	63.0	65.5	65.9	66.4	67.2	67.3	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5
IV 600	63.4	66.1	66.4	67.0	67.9	68.1	68.2	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3
IV 500	64.5	67.4	67.9	68.4	69.3	69.5	69.6	69.6	69.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 450	64.7	68.2	68.6	69.2	70.1	70.3	70.4	70.4	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 400	66.5	70.5	71.0	71.5	72.4	72.6	72.9	72.9	73.0	73.2	73.2	73.2	73.2	73.2	73.2	73.2
IV 350	67.1	71.1	71.6	72.2	73.2	73.4	73.6	73.6	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0
IV 300	69.2	73.4	74.0	74.5	75.6	75.9	76.1	76.2	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IV 250	70.9	75.5	76.1	76.8	78.1	78.3	78.5	78.6	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0
IV 200	74.2	79.2	79.8	80.4	81.8	82.0	82.2	82.3	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6
IV 1800	74.5	79.5	80.1	80.8	82.1	82.3	82.5	82.6	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IV 1500	76.6	82.0	82.5	83.2	84.9	85.1	85.3	85.4	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 1200	78.2	83.6	84.3	85.0	86.7	86.9	87.3	87.4	87.5	87.8	87.8	87.8	87.8	87.8	87.8	87.8
IV 1000	78.9	84.4	85.1	85.8	87.4	87.7	88.1	88.3	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7
IV 900	79.4	85.0	85.7	86.3	88.0	88.2	88.7	88.9	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV 800	80.1	85.7	86.3	87.0	88.8	89.0	89.4	89.8	89.9	90.2	90.2	90.2	90.2	90.2	90.2	90.2
IV 700	80.4	86.4	87.2	87.9	89.7	90.0	90.4	90.8	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2
IV 600	81.3	87.3	88.2	88.9	90.9	91.3	91.8	92.3	92.4	92.8	92.9	92.9	92.9	92.9	92.9	92.9
IV 500	81.4	87.7	88.7	89.5	91.7	92.3	93.3	94.1	94.2	94.5	94.7	94.7	94.7	94.7	94.7	94.7
IV 400	81.6	88.1	89.2	90.2	92.5	93.4	94.5	95.7	96.0	96.4	96.6	96.6	96.6	96.6	96.6	96.6
IV 300	81.6	88.1	89.2	90.2	92.5	93.5	94.9	96.2	96.8	97.4	97.7	97.7	98.1	98.2	98.2	98.2
IV 200	81.8	88.2	89.3	90.3	92.8	93.8	95.1	96.6	97.1	97.9	98.4	98.4	99.0	99.3	99.6	99.7
IV 100	81.8	88.2	89.3	90.3	92.8	93.8	95.1	96.6	97.1	97.9	98.4	98.4	99.0	99.4	99.8	100.0
IV 0	81.8	88.2	89.3	90.3	92.8	93.8	95.1	96.6	97.1	97.9	98.4	98.4	99.0	99.4	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-78

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET	VISIBILITY STATISTICS															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING	40.8	42.1	42.6	42.6	42.6	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
≥ 20000	48.2	49.9	50.4	50.4	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 18000	49.4	51.1	51.7	51.7	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 16000	49.6	51.2	51.8	51.8	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 14000	49.8	51.6	52.1	52.1	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 12000	50.6	52.3	52.9	52.9	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 10000	54.1	56.0	56.7	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 9000	55.1	57.0	57.7	57.9	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 8000	57.7	59.8	60.4	60.7	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
≥ 7000	59.1	61.3	62.0	62.2	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 6000	59.8	62.0	62.7	62.9	63.2	63.2	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 5000	62.0	64.2	64.9	65.2	65.6	65.7	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 4500	62.8	65.2	65.9	66.2	66.6	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 4000	67.7	70.6	71.4	71.9	72.4	72.6	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 3500	68.7	71.8	72.7	73.1	73.7	73.8	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3000	73.6	77.3	78.3	78.8	79.3	79.4	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 2500	75.7	80.0	81.0	81.4	82.0	82.1	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 2000	78.2	82.9	84.0	84.6	85.3	85.4	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 1800	78.9	83.6	84.7	85.2	86.0	86.1	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 1500	80.6	85.8	87.2	87.9	88.8	88.9	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1200	81.4	86.9	88.3	89.0	90.2	90.3	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1000	82.2	87.8	89.3	90.0	91.4	91.6	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 900	82.4	88.1	89.8	90.4	91.9	92.0	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 800	82.8	88.7	90.4	91.2	92.8	92.9	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 700	82.8	88.9	90.8	91.7	93.2	93.4	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 600	83.0	89.1	91.0	91.9	93.7	93.9	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 500	83.3	89.7	91.7	92.8	94.6	94.9	95.8	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 400	83.4	90.1	92.2	93.3	95.2	95.6	96.7	97.0	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300	83.4	90.2	92.4	93.7	96.0	96.3	98.1	98.6	98.8	99.1	99.2	99.2	99.2	99.3	99.3	99.3
≥ 200	83.4	90.2	92.4	93.7	96.0	96.4	98.2	98.7	99.0	99.4	99.6	99.6	99.6	99.7	99.7	99.8
≥ 100	83.4	90.2	92.4	93.7	96.0	96.4	98.2	98.7	99.0	99.4	99.6	99.6	99.6	99.7	99.7	99.8
≥ 0	83.4	90.2	92.4	93.7	96.0	96.4	98.2	98.7	99.0	99.4	99.6	99.6	99.6	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-76

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ .5	≥ .3	≥ .1	≥ .05	≥ .03	≥ .01	≥ .005	≥ .003	≥ .001
NO CEILING	41.5	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
≥ 20000	48.1	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 18000	49.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
IV 16000	49.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
IV 14000	49.8	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IV 12000	50.9	53.9	54.0	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 10000	53.0	56.0	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 9000	53.9	56.9	57.1	57.1	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 8000	56.2	59.6	59.8	59.8	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 7000	57.8	61.4	61.7	61.7	62.1	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
IV 6000	59.8	63.4	63.7	63.7	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 5000	62.8	66.6	66.8	66.8	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 4500	64.3	68.7	68.9	68.9	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
IV 4000	70.4	75.2	75.7	75.8	76.4	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 3500	72.2	77.0	77.4	77.6	78.2	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
IV 3000	75.4	80.8	81.3	81.7	82.4	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IV 2500	76.9	82.3	82.9	83.2	84.1	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 2000	78.3	83.9	84.4	84.8	85.8	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 1800	78.8	84.7	85.3	85.7	86.7	86.7	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 1500	80.8	87.0	87.7	88.0	89.0	89.0	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IV 1200	81.2	87.9	88.7	89.1	90.2	90.2	90.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 1000	81.4	88.2	89.2	89.8	91.2	91.2	91.8	92.0	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
IV 900	81.6	88.4	89.4	90.0	91.4	91.4	92.1	92.2	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 800	82.0	89.0	90.0	90.6	92.1	92.1	92.8	92.9	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IV 700	82.1	89.3	90.4	91.1	92.8	92.8	93.4	93.6	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 600	82.6	89.9	91.2	92.0	93.8	93.8	94.6	94.7	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 500	82.7	90.4	91.9	92.8	94.9	94.9	95.9	96.1	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 400	82.7	90.4	91.9	92.8	95.0	95.1	96.2	96.9	97.4	97.9	98.0	98.0	98.0	98.0	98.0	98.0
IV 300	82.7	90.4	91.9	92.8	95.0	95.1	96.3	97.4	98.0	98.6	98.8	98.9	98.9	99.0	99.0	99.0
IV 200	82.7	90.4	91.9	92.8	95.0	95.1	96.4	97.6	98.1	98.7	98.9	99.0	99.0	99.0	99.6	99.7
IV 100	82.7	90.4	91.9	92.8	95.0	95.1	96.4	97.6	98.1	98.7	98.9	99.0	99.0	99.0	99.6	99.7
IV 0	82.7	90.4	91.9	92.8	95.0	95.1	96.4	97.6	98.1	98.7	98.9	99.0	99.0	99.0	99.6	99.7

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB HI

9-76

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS.

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	47.3	50.1	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
≥ 25000	53.1	56.5	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥ 18000	53.9	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 16000	53.9	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 14000	54.5	57.8	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 12000	56.5	59.9	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 10000	59.3	63.1	63.5	63.5	63.5	63.5	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 9000	60.4	64.3	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 8000	62.2	66.1	66.5	66.5	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 7000	63.1	67.1	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 6000	65.2	69.3	69.8	69.9	70.2	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 5000	68.0	72.2	72.8	73.0	73.3	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 4500	68.9	73.2	73.8	74.0	74.4	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4000	73.3	78.1	78.9	79.1	79.7	79.9	80.1	80.2	80.2	80.4	80.5	80.5	80.5	80.5	80.5	80.5
≥ 3500	74.4	79.5	80.5	80.7	81.6	81.8	82.0	82.3	82.3	82.4	82.5	82.5	82.5	82.5	82.5	82.5
≥ 3000	75.8	81.0	82.1	82.5	83.6	83.8	84.0	84.3	84.3	84.4	84.5	84.5	84.5	84.5	84.5	84.5
≥ 2500	77.7	83.1	84.3	84.7	85.8	86.0	86.3	86.5	86.5	86.6	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2000	78.9	84.7	85.8	86.3	87.4	87.6	87.8	88.2	88.2	88.4	88.5	88.5	88.5	88.5	88.5	88.5
≥ 1800	79.0	84.8	85.9	86.4	87.5	87.7	87.9	88.3	88.3	88.5	88.6	88.6	88.6	88.6	88.6	88.6
≥ 1500	79.2	85.9	87.2	87.6	88.7	89.0	89.2	89.5	89.5	89.7	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1200	80.5	86.7	88.1	88.5	89.8	90.1	90.3	90.6	90.6	91.0	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1000	80.9	87.4	88.7	89.2	91.1	91.3	91.5	91.9	91.9	92.2	92.4	92.4	92.4	92.4	92.4	92.4
≥ 900	81.1	87.6	89.0	89.4	91.3	91.5	91.7	92.1	92.1	92.4	92.6	92.6	92.6	92.6	92.6	92.6
≥ 800	81.5	87.9	89.3	89.7	91.6	91.9	92.1	92.7	92.7	93.2	93.4	93.4	93.4	93.4	93.4	93.4
≥ 700	81.5	88.1	89.5	90.0	91.9	92.1	92.3	93.2	93.2	93.6	93.9	93.9	93.9	93.9	93.9	93.9
≥ 600	81.8	88.6	90.2	90.6	92.5	92.7	93.0	93.9	93.9	94.3	94.5	94.5	94.5	94.5	94.5	94.5
≥ 500	81.9	89.5	91.2	91.7	94.1	94.3	94.6	95.5	95.6	96.1	96.3	96.3	96.3	96.3	96.3	96.3
≥ 400	82.1	89.8	91.5	92.1	94.4	94.6	95.0	95.9	96.1	96.5	96.8	96.8	96.8	96.8	96.8	96.8
≥ 300	82.1	89.8	91.5	92.1	94.4	94.8	95.3	96.4	97.0	97.7	98.0	98.0	98.1	98.1	98.1	98.1
≥ 200	82.1	89.8	91.5	92.1	94.4	94.8	95.4	96.5	97.2	98.1	98.8	98.9	99.0	99.2	99.2	99.2
≥ 100	82.1	89.8	91.5	92.1	94.4	94.8	95.4	96.5	97.2	98.1	98.8	98.9	99.0	99.2	99.4	100.0
≥ 0	82.1	89.8	91.5	92.1	94.4	94.8	95.4	96.5	97.2	98.1	98.8	98.9	99.0	99.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 896

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

-9-78

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

		CEILING															
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
NO CEILING	≥ 20000	51.4	52.8	54.5	54.8	55.1	55.2	55.4	55.6	55.7	55.7	55.8	55.8	55.8	55.8	56.0	56.0
	≥ 8000	55.6	57.6	59.7	60.2	60.6	60.7	61.0	61.2	61.3	61.3	61.4	61.4	61.4	61.4	61.5	61.5
≥ 8000	≥ 6000	56.2	58.2	60.3	60.7	61.2	61.3	61.5	61.7	61.8	61.8	62.0	62.0	62.0	62.0	62.1	62.1
	≥ 4000	56.2	58.2	60.3	60.7	61.2	61.3	61.5	61.7	61.8	61.8	62.0	62.0	62.0	62.0	62.1	62.1
≥ 4000	≥ 2000	57.1	59.2	61.3	61.7	62.2	62.3	62.6	62.8	63.0	63.0	63.1	63.1	63.1	63.1	63.2	63.2
	≥ 1000	58.4	60.7	63.0	63.4	63.8	64.0	64.3	64.5	64.6	64.6	64.7	64.7	64.7	64.7	64.8	64.8
≥ 2000	≥ 800	62.0	64.3	66.5	67.1	67.5	67.6	68.2	68.4	68.5	68.5	68.6	68.6	68.6	68.6	68.7	68.7
	≥ 600	62.4	64.7	67.1	67.6	68.1	68.2	68.7	69.0	69.1	69.1	69.2	69.2	69.2	69.2	69.3	69.3
≥ 800	≥ 400	64.1	66.4	68.7	69.3	70.0	70.1	70.6	70.9	71.0	71.0	71.1	71.1	71.1	71.1	71.2	71.2
	≥ 200	66.1	68.5	70.9	71.4	72.1	72.2	72.7	73.0	73.1	73.1	73.2	73.2	73.2	73.2	73.3	73.3
≥ 400	≥ 100	67.5	70.1	72.5	73.1	73.9	74.2	74.7	75.0	75.1	75.1	75.2	75.2	75.2	75.2	75.3	75.3
	≥ 50	70.5	73.7	76.3	76.9	77.6	78.0	78.5	78.8	78.9	79.0	79.1	79.1	79.1	79.1	79.2	79.2
≥ 100	≥ 40	71.0	74.2	76.9	77.4	78.2	78.5	79.1	79.3	79.4	79.5	79.6	79.6	79.6	79.6	79.8	79.8
	≥ 30	73.4	77.1	79.8	80.3	81.3	81.8	82.4	82.6	82.8	83.1	83.2	83.2	83.3	83.3	83.4	83.4
≥ 30	≥ 20	74.0	78.0	80.6	81.3	82.4	82.9	83.5	83.8	83.9	84.2	84.3	84.3	84.4	84.5	84.6	84.6
	≥ 10	75.9	80.4	83.1	83.9	85.0	85.4	86.1	86.3	86.4	86.6	86.6	86.9	86.9	87.0	87.1	87.2
≥ 20	≥ 5	77.9	82.5	85.2	86.0	87.1	87.5	88.2	88.4	88.5	88.9	89.0	89.0	89.1	89.2	89.3	89.3
	≥ 1	78.6	83.4	86.2	87.0	88.3	88.8	89.4	89.7	89.8	90.1	90.2	90.2	90.3	90.4	90.5	90.5
≥ 5	≥ 0.5	78.6	83.4	86.2	87.0	88.2	88.8	89.4	89.7	89.8	90.1	90.2	90.2	90.3	90.4	90.5	90.5
	≥ 0.1	79.0	83.8	86.5	87.3	88.7	89.1	89.8	90.0	90.1	90.4	90.5	90.5	90.7	90.8	90.9	90.9
≥ 1	≥ 0.05	79.2	84.1	87.1	88.0	89.3	89.8	90.5	90.8	90.9	91.2	91.3	91.3	91.4	91.5	91.7	91.7
	≥ 0.01	79.8	84.8	87.8	88.8	90.4	90.9	91.7	91.9	92.0	92.3	92.5	92.5	92.7	92.8	92.9	92.9
≥ 0.1	≥ 0.005	80.1	85.3	88.3	89.3	91.0	91.4	92.2	92.5	92.7	93.0	93.2	93.2	93.4	93.5	93.7	93.7
	≥ 0.001	80.3	85.7	89.0	90.0	91.7	92.1	92.9	93.2	93.3	93.7	93.9	93.9	94.1	94.2	94.3	94.3
≥ 0.01	≥ 0.0005	80.5	86.3	89.7	90.7	92.3	92.8	93.5	93.9	94.0	94.4	94.7	94.7	94.9	95.0	95.1	95.1
	≥ 0.0001	80.8	86.8	90.1	91.1	92.9	93.3	94.1	94.7	94.8	95.2	95.4	95.4	95.7	95.8	95.9	95.9
≥ 0.001	≥ 0.00005	81.1	87.1	90.5	91.7	93.5	94.1	95.0	95.7	95.9	96.3	96.6	96.6	96.8	96.9	97.0	97.0
	≥ 0.00001	81.1	87.2	90.8	91.9	93.8	94.3	95.4	96.1	96.3	96.8	97.0	97.0	97.2	97.3	97.4	97.4
≥ 0.0001	≥ 0.000005	81.1	87.2	90.8	92.0	94.0	94.5	95.8	96.6	97.0	97.7	97.9	97.9	98.1	98.2	98.3	98.4
	≥ 0.000001	81.1	87.2	90.8	92.0	94.1	94.7	95.9	96.8	97.2	97.9	98.2	98.3	98.6	98.8	98.9	99.1
≥ 0.00001	≥ 0.0000005	81.1	87.2	90.8	92.0	94.1	94.7	95.9	96.8	97.2	97.9	98.3	98.7	98.9	99.1	99.4	100.0
	≥ 0.0000001	81.1	87.2	90.8	92.0	94.1	94.7	95.9	96.8	97.2	97.9	98.3	98.7	98.9	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 599

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-76

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	47.2	49.0	49.7	49.9	50.4	50.4	50.6	50.8	50.9	51.0	51.1	51.1	51.2	51.2	51.4	51.4
≥ 20000	51.7	53.9	54.7	54.9	55.5	55.5	55.7	56.0	56.1	56.1	56.2	56.2	56.4	56.4	56.5	56.6
≥ 18000	52.2	54.4	55.3	55.5	56.0	56.1	56.3	56.5	56.6	56.7	56.8	56.8	56.9	56.9	57.1	57.1
≥ 16000	52.3	54.5	55.3	55.5	56.1	56.1	56.3	56.6	56.7	56.7	56.8	56.8	57.0	57.0	57.1	57.2
≥ 14000	52.9	55.1	56.0	56.2	56.7	56.8	57.0	57.3	57.4	57.4	57.5	57.5	57.7	57.7	57.8	57.9
≥ 12000	54.3	56.6	57.5	57.8	58.3	58.4	58.6	58.8	59.0	59.0	59.1	59.1	59.3	59.3	59.4	59.5
≥ 10000	56.8	59.3	60.3	60.6	61.3	61.3	61.6	61.9	62.0	62.0	62.1	62.1	62.3	62.3	62.4	62.5
≥ 9000	57.5	60.1	61.1	61.3	62.1	62.2	62.4	62.7	62.8	62.9	63.0	63.0	63.1	63.1	63.3	63.3
≥ 8000	59.8	62.4	63.4	63.7	64.5	64.6	64.9	65.2	65.3	65.4	65.4	65.5	65.6	65.6	65.7	65.8
≥ 7000	61.5	64.4	65.4	65.7	66.6	66.7	67.0	67.2	67.4	67.5	67.5	67.6	67.7	67.7	67.8	67.9
≥ 6000	63.0	66.0	67.0	67.3	68.3	68.5	68.8	69.1	69.2	69.3	69.4	69.4	69.5	69.6	69.7	69.8
≥ 5000	65.3	68.6	69.7	70.1	71.1	71.3	71.7	72.0	72.1	72.2	72.3	72.3	72.4	72.4	72.6	72.6
≥ 4500	66.0	69.5	70.6	71.0	72.0	72.2	72.6	72.9	73.0	73.2	73.2	73.3	73.4	73.4	73.5	73.6
≥ 4000	68.9	72.7	74.0	74.4	75.6	75.9	76.3	76.7	76.8	77.0	77.1	77.1	77.3	77.3	77.4	77.5
≥ 3500	69.9	73.8	75.2	75.6	76.9	77.1	77.6	78.0	78.1	78.3	78.4	78.4	78.6	78.6	78.8	78.8
≥ 3000	72.0	76.2	77.7	78.2	79.6	79.8	80.3	80.7	80.9	81.1	81.2	81.2	81.4	81.4	81.6	81.6
≥ 2500	73.5	78.0	79.5	80.0	81.5	81.7	82.1	82.6	82.8	82.9	83.0	83.1	83.2	83.3	83.4	83.5
≥ 2000	75.0	79.7	81.2	81.7	83.2	83.5	83.9	84.4	84.6	84.8	84.9	84.9	85.1	85.1	85.3	85.3
≥ 1800	75.2	79.9	81.5	82.1	83.6	83.8	84.2	84.7	84.9	85.1	85.2	85.2	85.4	85.4	85.6	85.6
≥ 1500	76.4	81.3	83.0	83.5	85.1	85.3	85.8	86.3	86.5	86.7	86.8	86.8	87.0	87.0	87.2	87.2
≥ 1200	77.1	82.2	83.9	84.5	86.2	86.5	87.0	87.5	87.7	87.9	88.0	88.0	88.2	88.2	88.4	88.4
≥ 1000	77.7	83.0	84.8	85.5	87.4	87.7	88.1	88.7	89.0	89.2	89.3	89.3	89.5	89.5	89.7	89.8
≥ 900	78.0	83.4	85.2	85.9	87.9	88.1	88.7	89.2	89.5	89.7	89.8	89.8	90.0	90.1	90.2	90.3
≥ 800	78.5	84.0	85.8	86.6	88.6	88.8	89.4	90.0	90.3	90.5	90.6	90.7	90.9	90.9	91.0	91.1
≥ 700	78.7	84.4	86.4	87.1	89.2	89.5	90.1	90.7	91.0	91.2	91.4	91.4	91.6	91.6	91.8	91.8
≥ 600	79.1	84.9	86.9	87.7	89.9	90.2	90.8	91.5	91.8	92.0	92.2	92.2	92.4	92.4	92.6	92.7
≥ 500	79.4	85.5	87.6	88.5	91.0	91.4	92.3	93.1	93.5	93.7	93.9	93.9	94.1	94.1	94.3	94.4
≥ 400	79.5	85.8	87.9	88.9	91.6	92.1	93.2	94.2	94.6	95.0	95.2	95.3	95.5	95.5	95.7	95.8
≥ 300	79.6	85.9	88.1	89.1	92.0	92.5	93.9	95.1	95.8	96.4	96.7	96.8	97.1	97.2	97.5	97.6
≥ 200	79.6	85.9	88.1	89.1	92.0	92.5	94.0	95.4	96.1	96.9	97.4	97.6	98.0	98.3	98.7	99.0
≥ 100	79.6	85.9	88.1	89.1	92.0	92.5	94.0	95.4	96.1	96.9	97.5	97.7	98.1	98.5	99.2	100.0
≥ 0	79.6	85.9	88.1	89.1	92.0	92.5	94.0	95.4	96.1	96.9	97.5	97.7	98.1	98.6	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS

7193

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

69-78

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.8	≥0.6	≥0.5	≥0.4	≥0.3	≥0.2	≥0
NO CEILING	62.4	64.6	65.9	66.6	67.4	67.6	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.4	68.4	68.6
≥ 20000	66.0	68.4	69.6	70.5	71.3	71.5	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.2	72.2	72.4
≥ 18000	66.1	68.6	69.9	70.8	71.6	71.8	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.6	72.6	72.8
≥ 16000	66.1	68.6	69.9	70.8	71.6	71.8	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.6	72.6	72.8
≥ 14000	66.4	68.9	70.3	71.3	72.0	72.2	72.7	72.9	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.2
≥ 12000	68.1	70.6	72.2	73.2	74.0	74.2	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.9	74.9	75.1
≥ 10000	70.4	73.0	74.8	75.8	76.5	76.7	77.3	77.5	77.5	77.5	77.5	77.5	77.5	77.6	77.7	77.9
≥ 9000	71.3	73.8	75.7	76.6	77.4	77.6	78.1	78.4	78.4	78.4	78.4	78.5	78.5	78.6	78.6	78.8
≥ 8000	72.3	75.0	76.9	77.9	78.7	78.9	79.4	79.7	79.7	79.7	79.7	79.8	79.8	79.9	79.9	80.1
≥ 7000	73.7	76.4	78.3	79.3	80.1	80.3	80.8	81.1	81.1	81.1	81.1	81.2	81.2	81.3	81.3	81.5
≥ 6000	74.7	77.6	79.5	80.6	81.4	81.6	82.1	82.3	82.3	82.3	82.3	82.5	82.5	82.6	82.6	82.8
≥ 5000	75.6	78.7	80.7	81.9	82.7	82.9	83.4	83.6	83.6	83.6	83.6	83.7	83.7	83.9	83.9	84.1
≥ 4500	76.2	79.4	81.5	83.0	83.7	84.0	84.5	84.7	84.8	84.8	84.8	84.9	84.9	85.0	85.0	85.3
≥ 4000	77.3	80.9	83.2	84.8	86.1	86.3	87.0	87.2	87.3	87.3	87.3	87.4	87.4	87.5	87.5	87.7
≥ 3500	77.6	81.3	83.5	85.1	86.4	86.7	87.3	87.5	87.6	87.6	87.6	87.7	87.7	87.8	87.8	88.1
≥ 3000	77.9	81.6	84.5	86.1	87.4	87.7	88.4	88.6	88.7	88.7	88.7	88.8	88.8	88.9	88.9	89.1
≥ 2500	78.5	82.3	85.4	87.0	88.3	88.6	89.2	89.5	89.6	89.6	89.6	89.7	89.7	89.8	89.8	90.0
≥ 2000	78.7	82.6	85.6	87.2	88.5	88.8	89.5	89.7	89.8	89.8	89.8	89.9	89.9	90.0	90.0	90.2
≥ 1800	78.9	82.9	85.9	87.5	88.8	89.1	89.8	90.0	90.1	90.1	90.1	90.2	90.2	90.3	90.3	90.5
≥ 1500	79.0	83.1	86.1	87.8	89.1	89.5	90.1	90.3	90.4	90.4	90.4	90.5	90.5	90.6	90.6	90.9
≥ 1200	79.4	83.5	86.7	88.4	89.9	90.3	91.0	91.2	91.3	91.3	91.3	91.4	91.4	91.5	91.5	91.7
≥ 1000	79.5	83.6	86.8	88.5	90.0	90.5	91.2	91.5	91.6	91.6	91.6	91.7	91.7	91.8	91.8	92.0
≥ 900	79.5	83.7	86.9	88.6	90.1	90.6	91.3	91.6	91.7	91.7	91.7	91.8	91.8	91.9	91.9	92.1
≥ 800	79.5	83.7	86.9	88.6	90.2	90.7	91.4	91.7	91.8	91.8	91.8	92.0	92.0	92.1	92.1	92.4
≥ 700	79.5	84.0	87.3	89.3	91.2	91.7	92.4	92.7	92.8	92.8	92.8	93.0	93.0	93.1	93.1	93.3
≥ 600	79.5	84.1	87.4	89.5	91.6	92.1	92.8	93.1	93.2	93.2	93.2	93.4	93.4	93.5	93.5	93.8
≥ 500	79.7	84.3	87.6	89.8	92.5	93.1	94.4	94.7	94.9	94.9	94.9	95.2	95.2	95.3	95.3	95.5
≥ 400	79.7	84.3	87.6	89.3	92.9	93.6	95.2	95.7	96.0	96.0	96.0	96.2	96.2	96.3	96.3	96.6
≥ 300	79.7	84.3	87.8	90.0	93.1	93.9	95.5	96.1	96.7	96.9	97.2	97.2	97.2	97.3	97.3	97.7
≥ 200	79.7	84.3	87.8	90.0	93.1	93.9	95.5	96.2	97.1	97.3	97.7	97.7	97.7	98.0	98.0	98.3
≥ 100	79.7	84.3	87.8	90.0	93.1	93.9	95.5	96.2	97.1	97.4	97.8	97.8	97.8	98.1	98.1	98.7
≥ 0	79.7	84.3	87.8	90.0	93.1	93.9	95.5	96.2	97.1	97.4	97.8	97.8	97.8	98.1	98.1	98.7

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB HI

9-78

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	55.3	58.0	58.6	59.4	61.3	61.3	61.8	62.1	62.7	63.1	63.6	63.6	63.9	63.9	64.1	64.7
≥ 20000	59.1	62.0	62.7	63.6	65.6	65.6	66.0	66.3	67.0	67.3	67.8	67.8	68.1	68.1	68.4	68.9
≥ 18000	59.2	62.1	62.9	63.7	65.7	65.7	66.1	66.4	67.1	67.4	67.9	67.9	68.3	68.3	68.5	69.0
≥ 16000	59.3	62.2	63.0	63.8	65.8	65.8	66.2	66.5	67.2	67.5	68.0	68.0	68.4	68.4	68.6	69.1
≥ 14000	59.8	62.7	63.5	64.4	66.3	66.3	66.7	67.2	67.8	68.1	68.7	68.7	69.0	69.0	69.2	69.8
≥ 12000	60.8	63.7	64.5	65.3	67.3	67.3	67.7	68.1	68.8	69.1	69.7	69.7	70.0	70.0	70.2	70.7
≥ 10000	63.7	66.8	67.5	68.5	70.6	70.6	71.2	71.7	72.4	72.7	73.2	73.2	73.5	73.5	74.1	74.6
≥ 9000	64.6	67.8	68.6	69.4	71.7	71.7	72.2	72.8	73.4	73.8	74.3	74.3	74.6	74.6	75.2	75.7
≥ 8000	65.9	69.2	70.0	70.8	73.2	73.2	73.8	74.3	74.9	75.3	75.8	75.8	76.1	76.1	76.7	77.2
≥ 7000	67.2	70.5	71.4	72.2	74.6	74.6	75.2	75.7	76.3	76.7	77.2	77.2	77.5	77.5	78.1	78.6
≥ 6000	68.8	72.5	73.5	74.5	77.1	77.1	77.6	78.2	78.8	79.2	79.7	79.7	80.0	80.0	80.6	81.1
≥ 5000	70.3	74.1	75.2	76.1	78.8	78.9	79.5	80.0	80.7	81.0	81.6	81.6	82.0	82.0	82.5	83.0
≥ 4500	70.7	74.5	75.7	76.7	79.4	79.5	80.0	80.6	81.2	81.5	82.2	82.2	82.5	82.5	83.0	83.6
≥ 4000	72.2	76.3	77.8	78.8	82.1	82.2	82.7	83.3	83.9	84.2	84.9	84.9	85.2	85.2	85.7	86.3
≥ 3500	72.8	77.0	78.4	79.5	82.8	82.9	83.5	84.0	84.7	85.0	85.6	85.6	86.0	86.0	86.5	87.0
≥ 3000	73.2	77.4	79.0	80.1	83.5	83.6	84.1	84.7	85.3	85.6	86.3	86.3	86.6	86.6	87.1	87.7
≥ 2500	73.4	77.6	79.3	80.3	83.7	83.8	84.3	84.9	85.5	85.9	86.5	86.5	86.8	86.8	87.4	87.9
≥ 2000	74.0	78.2	79.8	80.9	84.2	84.3	84.9	85.4	86.1	86.4	87.0	87.0	87.4	87.4	87.9	88.4
≥ 1800	74.3	78.5	80.1	81.2	84.6	84.7	85.2	85.7	86.4	86.7	87.4	87.4	87.7	87.7	88.2	88.8
≥ 1500	74.7	78.9	80.6	81.6	85.1	85.2	85.7	86.3	86.9	87.3	87.9	87.9	88.2	88.3	88.9	89.4
≥ 1200	75.3	79.5	81.2	82.3	85.9	86.0	86.5	87.0	87.7	88.0	88.7	88.7	89.0	89.1	89.6	90.2
≥ 1000	75.6	79.8	81.5	82.8	86.4	86.5	87.3	87.8	88.6	88.9	89.5	89.5	89.8	90.0	90.5	91.0
≥ 900	75.7	79.9	81.7	83.0	86.6	86.7	87.5	88.0	88.8	89.1	89.7	89.7	90.1	90.2	90.7	91.3
≥ 800	75.7	79.9	81.7	83.2	86.7	86.9	87.7	88.2	89.0	89.3	90.0	90.0	90.3	90.4	90.9	91.5
≥ 700	75.7	80.1	82.3	83.7	87.6	87.8	88.6	89.1	89.8	90.2	90.8	90.8	91.1	91.3	91.8	92.3
≥ 600	75.8	80.2	82.5	84.0	88.0	88.2	89.2	89.7	90.5	90.8	91.5	91.5	91.8	91.9	92.4	93.0
≥ 500	75.8	80.2	82.7	84.2	88.8	89.1	90.5	91.1	91.9	92.3	93.0	93.0	93.3	93.4	94.0	94.5
≥ 400	75.8	80.2	82.7	84.2	88.8	89.3	90.9	91.9	93.0	93.4	94.1	94.1	94.4	94.5	95.0	95.6
≥ 300	75.8	80.2	82.8	84.3	88.9	89.4	91.3	92.2	93.5	94.2	94.9	94.9	95.2	95.5	96.1	96.8
≥ 200	75.8	80.2	82.8	84.3	89.0	89.5	91.5	92.4	94.3	94.9	95.9	95.9	96.8	97.0	97.8	99.2
≥ 100	75.8	80.2	82.8	84.3	89.0	89.5	91.5	92.4	94.4	95.1	96.2	96.2	97.1	97.3	98.3	100.0
≥ 0	75.8	80.2	82.8	84.3	89.0	89.5	91.5	92.4	94.4	95.1	96.2	96.2	97.1	97.3	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 926

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

94835 K I SAWYER AFB MI

69-72

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	48.6	51.0	51.8	53.1	53.9	54.1	54.8	55.1	55.6	55.7	55.8	55.9	56.5	56.6	56.7	56.8
≥ 20000	53.1	56.2	57.1	58.6	59.7	59.9	60.6	60.9	61.5	61.6	61.7	61.9	62.5	62.6	62.7	63.0
IV 8000	53.2	56.3	57.2	58.7	59.8	60.0	60.8	61.0	61.6	61.7	61.8	62.0	62.6	62.7	62.8	63.1
IV 7000	53.2	56.3	57.2	58.7	59.8	60.0	60.8	61.0	61.6	61.7	61.8	62.0	62.6	62.7	62.8	63.1
IV 14000	53.8	57.0	58.0	59.5	60.8	61.0	61.7	62.0	62.7	62.8	62.9	63.1	63.7	63.8	63.9	64.2
IV 12000	55.9	59.1	60.1	61.6	62.9	63.1	63.9	64.2	64.8	64.9	65.1	65.3	65.8	65.9	66.0	66.3
IV 10000	58.3	62.0	63.2	65.3	66.8	67.0	67.7	68.2	68.8	69.0	69.1	69.4	69.9	70.0	70.3	70.6
IV 9000	58.4	62.3	63.4	65.5	67.0	67.3	68.1	68.5	69.1	69.4	69.5	69.7	70.2	70.3	70.6	71.0
IV 8000	61.9	66.3	67.5	69.7	71.5	71.8	72.7	73.1	73.8	74.0	74.1	74.3	74.8	74.9	75.4	75.8
IV 7000	63.0	67.4	68.7	70.9	72.7	73.0	73.9	74.3	75.1	75.3	75.4	75.6	76.1	76.2	76.7	77.1
IV 6000	64.0	68.5	69.9	72.2	74.0	74.3	75.2	75.6	76.3	76.6	76.7	76.9	77.4	77.5	78.0	78.4
IV 5000	66.5	71.4	72.9	75.3	77.2	77.5	78.5	78.9	79.7	79.9	80.1	80.3	80.9	81.0	81.4	81.8
IV 4500	67.1	72.0	73.5	76.0	78.0	78.3	79.2	79.7	80.4	80.6	80.9	81.1	81.6	81.7	82.2	82.6
IV 4000	68.6	73.8	75.3	78.0	80.0	80.3	81.4	81.9	82.7	82.9	83.1	83.3	83.9	84.0	84.4	84.8
IV 3500	69.0	74.3	75.9	78.6	80.6	81.0	82.0	82.6	83.3	83.5	83.8	84.0	84.5	84.6	85.1	85.5
IV 3000	69.8	75.2	76.8	79.6	81.7	82.0	83.1	83.8	84.5	84.8	85.1	85.3	85.9	86.0	86.5	86.9
IV 2500	70.1	75.8	77.4	80.2	82.5	82.9	84.1	84.7	85.5	85.8	86.0	86.2	86.9	87.0	87.4	87.8
IV 2000	70.6	76.5	78.1	81.0	83.2	83.7	84.8	85.5	86.3	86.7	86.9	87.1	87.7	87.8	88.3	88.7
IV 1800	70.9	76.7	78.3	81.2	83.4	83.9	85.1	85.7	86.6	86.9	87.1	87.3	88.0	88.1	88.5	88.9
IV 1500	72.3	78.1	79.8	82.8	85.2	85.6	86.8	87.4	88.3	88.6	88.8	89.0	89.7	89.8	90.3	90.9
IV 1200	72.9	78.7	80.4	83.4	85.9	86.5	87.5	88.2	89.0	89.4	89.5	89.9	90.5	90.6	91.2	91.7
IV 1000	73.3	79.4	81.1	84.1	86.6	87.0	88.4	89.0	89.9	90.2	90.4	90.8	91.4	91.5	92.0	92.6
IV 900	73.3	79.4	81.1	84.1	86.6	87.0	88.4	89.0	89.9	90.2	90.4	90.8	91.4	91.5	92.0	92.6
IV 800	73.4	79.5	81.2	84.3	86.8	87.2	88.6	89.2	90.1	90.4	90.6	91.0	91.6	91.7	92.3	92.8
IV 700	73.4	79.5	81.2	84.3	86.8	87.2	88.6	89.2	90.1	90.4	90.6	91.0	91.6	91.7	92.3	92.8
IV 600	73.4	79.5	81.2	84.3	86.8	87.2	88.6	89.2	90.1	90.4	90.6	91.0	91.6	91.7	92.3	92.8
IV 500	74.2	80.0	82.4	85.7	88.3	88.8	90.2	91.1	92.0	92.4	92.6	92.9	93.5	93.7	94.2	94.7
IV 400	74.2	80.0	82.4	85.7	88.3	88.8	90.2	91.1	92.0	92.4	92.6	92.9	93.5	93.7	94.2	94.7
IV 300	74.3	80.8	82.9	86.3	88.9	89.8	91.3	92.4	93.7	94.3	94.9	95.3	96.1	96.2	96.8	97.3
IV 200	74.3	80.8	82.9	86.3	88.9	89.8	91.3	92.4	93.7	94.3	94.9	95.3	96.1	96.2	96.8	97.3
IV 100	74.3	80.8	82.9	86.3	88.9	89.8	91.3	92.4	93.7	94.3	94.9	95.3	96.1	96.2	96.8	97.3
IV 0	74.3	80.8	82.9	86.3	88.9	89.8	91.3	92.4	93.7	94.3	94.9	95.3	96.1	96.2	96.8	97.3

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

59-76

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 5	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ .005	≥ .001
NO CEILING	53.3	56.6	57.0	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 20000	58.1	61.6	62.0	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 18000	58.5	62.0	62.5	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
IV 16000	58.6	62.2	62.6	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 14000	59.2	62.9	63.3	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
IV 12000	61.3	65.1	65.5	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 10000	66.2	70.5	71.1	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
IV 9000	66.3	70.8	71.3	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 8000	68.5	73.0	73.5	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 7000	69.6	74.2	74.7	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 6000	70.4	75.1	75.6	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IV 5000	72.0	76.9	77.6	77.7	78.0	78.0	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 4500	72.2	77.0	77.7	77.8	78.1	78.1	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
IV 4000	73.3	78.8	79.8	80.0	80.2	80.2	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 3500	74.3	79.8	80.8	81.0	81.2	81.2	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
IV 3000	76.2	82.0	83.0	83.2	83.4	83.4	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 2500	78.0	83.5	84.5	84.7	84.9	84.9	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
IV 2000	79.5	85.4	86.6	86.9	87.2	87.2	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 1800	80.2	86.2	87.4	87.7	88.1	88.1	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
IV 1500	82.0	88.3	89.6	89.9	90.3	90.3	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1200	82.6	88.9	90.2	90.5	91.0	91.1	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 1000	83.3	89.8	91.2	91.8	92.3	92.4	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 900	84.1	90.6	92.0	92.8	93.4	93.5	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 800	84.7	91.5	92.9	93.7	94.5	94.6	95.6	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 700	84.8	91.6	93.1	94.0	94.9	95.2	96.1	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 600	85.1	91.8	93.4	94.3	95.3	95.5	96.6	97.0	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2
≥ 500	85.7	92.5	94.2	95.1	96.0	96.3	97.4	98.0	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3
IV 400	85.7	92.5	94.3	95.2	96.1	96.6	97.7	98.3	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6
≥ 300	85.7	92.6	94.5	95.4	96.5	96.9	98.2	98.7	98.9	99.2	99.2	99.2	99.2	99.4	99.4	99.4
IV 200	85.7	92.6	94.5	95.4	96.5	96.9	98.2	98.7	99.0	99.5	99.5	99.5	99.5	99.7	99.7	99.7
≥ 100	85.7	92.6	94.5	95.4	96.5	96.9	98.2	98.7	99.0	99.5	99.5	99.5	99.5	99.7	99.7	99.7
IV 0	85.7	92.6	94.5	95.4	96.5	96.9	98.2	98.7	99.0	99.5	99.5	99.5	99.5	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

69-78

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS.)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	48.8	50.1	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
IV 20000	55.0	56.9	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 18000	55.8	57.6	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 16000	55.9	57.7	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
IV 14000	57.0	58.9	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
IV 12000	58.9	60.6	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
IV 10000	62.7	64.6	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
IV 9000	63.1	65.0	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
IV 8000	65.8	67.9	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
IV 7000	66.9	68.9	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
IV 6000	67.7	69.8	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 5000	68.9	71.7	72.2	72.2	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 4500	69.9	72.9	73.4	73.5	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
IV 4000	73.6	76.8	77.5	77.6	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
IV 3500	75.2	78.6	79.3	79.6	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
IV 3000	79.0	82.7	83.8	83.9	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IV 2500	81.2	85.5	86.7	86.8	87.2	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
IV 2000	83.6	87.9	89.3	89.5	90.0	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IV 1800	84.4	88.9	90.3	90.5	90.9	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
IV 1500	85.8	91.2	92.7	92.9	93.4	93.7	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 1200	86.3	91.9	93.4	93.9	94.4	94.7	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1000	86.9	93.0	94.6	95.0	95.6	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 900	87.3	93.9	95.5	95.9	96.4	96.8	97.0	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2
IV 800	87.5	94.1	95.7	96.2	96.6	97.1	97.3	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5
IV 700	87.5	94.1	95.7	96.2	96.9	97.2	97.4	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6
IV 600	87.6	94.2	95.8	96.3	97.0	97.4	97.6	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8
IV 500	87.8	94.4	96.1	96.8	97.5	98.0	98.2	98.3	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6
IV 400	87.8	94.4	96.1	96.9	97.7	98.2	98.4	98.6	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0
IV 300	87.8	94.5	96.3	97.1	98.1	98.5	98.7	98.9	99.1	99.2	99.2	99.5	99.5	99.5	99.5	99.5
IV 200	87.8	94.5	96.3	97.1	98.2	98.6	98.8	99.0	99.2	99.2	99.5	99.8	99.8	99.8	99.9	99.9
IV 100	87.8	94.5	96.3	97.1	98.2	98.6	98.8	99.0	99.2	99.2	99.5	99.8	99.8	99.8	99.9	99.9
IV 0	87.8	94.5	96.3	97.1	98.2	98.6	98.8	99.0	99.2	99.2	99.5	99.8	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 927

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836
STATION

K I SAWYER AFB MI
STATION NAME

69-78
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	46.5	47.6	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 20000	55.8	57.2	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 18000	56.2	57.6	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 16000	56.4	57.8	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 14000	57.8	59.3	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 12000	59.1	60.6	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 10000	62.4	64.3	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 9000	62.9	64.7	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 8000	64.7	66.8	67.7	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 7000	66.2	68.5	69.3	69.4	69.4	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 6000	68.2	70.5	71.4	71.5	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 5000	71.0	73.6	74.6	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4500	72.6	75.1	76.1	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 4000	79.2	82.7	83.9	84.0	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 3500	81.3	85.0	86.3	86.4	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 3000	84.2	88.4	89.8	89.9	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 2500	85.8	90.0	91.4	91.5	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 2000	87.3	91.6	93.0	93.2	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1800	87.4	91.7	93.1	93.3	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1500	88.1	92.9	94.5	94.7	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1200	88.1	93.2	94.9	95.5	96.1	96.1	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1000	88.3	93.4	95.2	95.7	96.3	96.3	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 900	88.4	93.5	95.3	95.8	96.4	96.4	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 800	88.5	93.6	95.4	96.0	96.8	96.8	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 700	88.5	93.6	95.4	96.0	96.8	96.8	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 600	88.5	93.6	95.4	96.0	96.9	96.9	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 500	88.6	93.9	95.6	96.2	97.5	97.6	97.8	97.8	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2
≥ 400	88.7	94.1	95.8	96.4	97.7	97.8	98.4	98.6	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9
≥ 300	88.9	94.4	96.1	96.8	98.2	98.4	98.9	99.2	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	88.9	94.4	96.1	96.8	98.2	98.5	99.0	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	88.9	94.4	96.1	96.8	98.2	98.5	99.0	99.4	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9
≥ 0	88.9	94.4	96.1	96.8	98.2	98.5	99.0	99.4	99.6	99.6	99.8	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

69-76

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS:

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	57.3	58.6	59.3	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 20000	63.0	64.7	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 18000	63.7	65.4	66.2	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 16000	64.3	66.1	66.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 14000	65.6	67.4	68.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 12000	68.2	70.2	70.9	71.2	71.2	71.2	71.2	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 10000	70.8	73.4	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 9000	71.5	74.1	74.8	75.0	75.0	75.0	75.0	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 8000	72.7	75.2	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 7000	74.3	77.3	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 6000	76.1	79.1	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 5000	78.3	81.4	82.3	82.6	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 4500	79.4	82.7	83.6	83.9	84.0	84.0	84.0	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 4000	83.2	86.7	87.6	87.8	87.9	87.9	88.1	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 3500	83.9	87.4	88.5	88.7	88.8	88.8	88.9	88.9	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 3000	85.0	89.3	90.5	90.9	91.2	91.2	91.3	91.3	91.5	91.6	91.7	91.7	91.7	91.7	91.7	91.7
≥ 2500	85.9	90.4	91.6	91.9	92.2	92.2	92.4	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 2000	86.8	91.7	93.0	93.5	93.9	93.9	94.0	94.2	94.3	94.4	94.4	94.4	94.4	94.5	94.5	94.5
≥ 1800	86.9	91.8	93.1	93.8	94.0	94.0	94.1	94.3	94.4	94.5	94.5	94.5	94.6	94.6	94.6	94.6
≥ 1500	87.6	92.6	94.0	94.5	94.8	94.8	94.9	95.2	95.3	95.4	95.4	95.4	95.5	95.5	95.5	95.5
≥ 1200	87.9	93.0	94.4	94.9	95.4	95.4	95.5	95.7	95.8	95.9	95.9	95.9	96.0	96.0	96.0	96.0
≥ 1000	88.1	93.3	94.8	95.4	95.8	95.8	95.9	96.1	96.2	96.3	96.3	96.3	96.4	96.4	96.4	96.4
≥ 900	88.3	93.6	95.2	95.7	96.1	96.1	96.2	96.4	96.6	96.7	96.7	96.7	96.8	96.8	96.8	96.8
≥ 800	88.5	93.9	95.4	95.9	96.6	96.6	96.7	96.9	97.0	97.2	97.2	97.2	97.3	97.3	97.3	97.3
≥ 700	88.5	93.9	95.4	95.9	96.6	96.6	96.7	96.9	97.0	97.2	97.2	97.2	97.3	97.3	97.3	97.3
≥ 600	88.7	94.2	95.7	96.2	96.9	96.9	97.1	97.3	97.4	97.6	97.6	97.6	97.7	97.7	97.7	97.7
≥ 500	88.8	94.3	95.8	96.6	97.3	97.3	97.6	97.8	98.0	98.2	98.2	98.2	98.3	98.3	98.3	98.3
≥ 400	88.8	94.4	95.9	96.8	97.5	97.5	98.0	98.2	98.5	98.7	98.8	98.8	98.9	98.9	98.9	98.9
≥ 300	88.8	94.4	95.9	96.8	97.6	97.6	98.3	98.5	98.8	99.0	99.1	99.1	99.2	99.2	99.2	99.2
≥ 200	88.8	94.4	95.9	96.8	97.6	97.6	98.4	98.6	99.0	99.2	99.5	99.5	99.7	99.7	99.8	99.8
≥ 100	88.8	94.4	95.9	96.8	97.6	97.7	98.4	98.6	99.0	99.2	99.5	99.5	99.8	99.8	99.9	100.0
≥ 0	88.8	94.4	95.9	96.8	97.6	97.7	98.4	98.6	99.0	99.2	99.5	99.5	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-72

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS.

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥1/512
NO CEILING ≥ 20000	61.5	63.4	64.1	65.0	65.7	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.2
≥ 18000	65.8	68.1	69.0	70.1	70.8	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.3
≥ 16000	66.5	68.7	69.7	70.8	71.4	71.6	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	72.0
≥ 14000	66.8	69.0	70.0	71.1	71.7	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3
≥ 12000	67.3	69.6	70.6	71.7	72.4	72.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.0
≥ 10000	68.5	70.8	71.7	73.0	73.7	73.9	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4
≥ 9000	72.7	75.8	76.9	78.3	79.0	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7
≥ 8000	73.4	76.5	77.6	79.0	79.6	79.8	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.4
≥ 7000	73.9	77.0	78.1	79.5	80.2	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9
≥ 6000	75.4	78.6	80.0	81.4	82.1	82.3	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	83.0
≥ 5000	76.8	80.0	81.4	83.0	83.6	83.8	84.4	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.7
≥ 4500	78.0	81.4	83.0	84.6	85.4	85.7	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.5
≥ 4000	78.1	81.6	83.1	84.7	85.5	85.8	86.3	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.6
≥ 3500	80.2	84.0	85.8	87.5	88.5	88.8	89.4	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.8
≥ 3000	80.2	84.4	86.1	87.8	88.8	89.1	89.8	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.1
≥ 2500	80.8	85.1	87.2	89.0	90.3	90.8	91.5	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.8
≥ 2000	81.4	85.8	87.8	89.6	90.9	91.5	92.1	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.4
≥ 1800	82.0	86.4	88.5	90.3	91.6	92.1	92.8	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.1
≥ 1500	82.3	86.7	88.8	90.6	91.9	92.4	93.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.5
≥ 1200	82.4	86.9	89.0	90.9	92.2	92.8	93.5	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.9
≥ 1000	82.5	87.2	89.3	91.4	92.7	93.2	94.0	94.1	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.6
≥ 900	82.7	87.4	89.5	91.6	92.9	93.4	94.2	94.3	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.8
≥ 800	82.8	87.6	89.8	91.8	93.1	93.6	94.4	94.6	94.7	95.0	95.1	95.1	95.1	95.1	95.1	95.3
≥ 700	83.2	87.9	90.1	92.3	93.7	94.3	95.0	95.3	95.4	95.7	95.8	95.8	95.8	95.8	95.8	95.9
≥ 600	83.2	87.9	90.2	92.4	94.3	94.8	95.7	95.9	96.0	96.3	96.4	96.4	96.4	96.4	96.4	96.5
≥ 500	83.2	88.0	90.4	92.8	94.9	95.5	96.4	96.7	96.9	97.2	97.3	97.3	97.4	97.4	97.4	97.5
≥ 400	83.2	88.0	90.4	92.9	95.4	95.9	97.0	97.2	97.4	97.7	97.8	97.8	98.0	98.0	98.0	98.1
≥ 300	83.2	88.0	90.4	92.9	95.4	95.9	97.0	97.2	97.5	98.1	98.5	98.5	98.6	98.6	98.7	98.8
≥ 200	83.2	88.0	90.4	92.9	95.4	95.9	97.0	97.2	97.6	98.2	98.7	98.7	98.8	98.9	98.9	99.4
≥ 100	83.2	88.0	90.4	92.9	95.4	95.9	97.0	97.3	97.7	98.3	98.8	98.8	98.9	98.9	99.0	99.4
≥ 0	83.2	88.0	90.4	92.9	95.4	95.9	97.0	97.3	97.7	98.3	98.8	98.8	98.9	99.0	99.0	99.4

TOTAL NUMBER OF OBSERVATIONS 927

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835 K I SANYER AFB HI

0-70

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	54.2	56.2	56.9	57.5	58.0	58.1	58.3	58.4	58.5	58.6	58.7	58.7	58.8	58.8	58.9	59.0
≥ 20000	59.5	61.9	62.6	63.2	63.8	63.9	64.1	64.2	64.4	64.4	64.5	64.5	64.7	64.7	64.7	64.9
≥ 18000	59.9	62.3	63.1	63.7	64.3	64.3	64.6	64.7	64.8	64.9	65.0	65.0	65.1	65.1	65.2	65.3
≥ 16000	60.1	62.5	63.3	63.9	64.4	64.5	64.8	64.8	65.0	65.1	65.1	65.2	65.3	65.3	65.3	65.5
≥ 14000	60.7	63.3	64.1	64.8	65.4	65.4	65.7	65.8	66.0	66.0	66.1	66.1	66.2	66.3	66.3	66.4
≥ 12000	62.6	65.1	65.9	66.6	67.2	67.3	67.5	67.6	67.8	67.9	67.9	68.0	68.1	68.1	68.1	68.3
≥ 10000	65.9	68.8	69.7	70.4	71.1	71.2	71.5	71.6	71.8	71.8	71.9	72.0	72.1	72.1	72.2	72.4
≥ 9000	66.4	69.4	70.3	71.0	71.7	71.8	72.0	72.2	72.3	72.4	72.5	72.5	72.7	72.7	72.8	72.9
≥ 8000	68.2	71.3	72.2	73.0	73.7	73.8	74.1	74.3	74.4	74.5	74.6	74.6	74.7	74.8	74.9	75.0
≥ 7000	69.5	72.7	73.7	74.5	75.2	75.3	75.6	75.8	75.9	76.0	76.1	76.1	76.2	76.3	76.4	76.6
≥ 6000	70.8	74.1	75.2	76.0	76.7	76.8	77.1	77.3	77.5	77.6	77.7	77.7	77.8	77.8	77.9	78.1
≥ 5000	72.6	76.2	77.3	78.1	79.0	79.1	79.5	79.6	79.8	79.9	80.0	80.1	80.2	80.2	80.3	80.5
≥ 4500	73.3	76.9	78.1	79.0	79.8	79.9	80.3	80.5	80.7	80.8	80.9	81.0	81.1	81.1	81.2	81.3
≥ 4000	76.0	80.0	81.3	82.3	83.3	83.5	83.9	84.1	84.3	84.4	84.5	84.5	84.7	84.7	84.8	85.0
≥ 3500	76.8	81.0	82.4	83.3	84.4	84.5	85.0	85.1	85.4	85.4	85.6	85.6	85.7	85.7	85.8	86.0
≥ 3000	78.3	82.7	84.3	85.3	86.5	86.7	87.2	87.4	87.6	87.7	87.8	87.8	88.0	88.0	88.1	88.3
≥ 2500	79.3	83.9	85.5	86.5	87.7	87.9	88.4	88.6	88.8	88.9	89.1	89.1	89.2	89.2	89.4	89.5
≥ 2000	80.3	85.0	86.7	87.8	89.1	89.3	89.8	90.0	90.2	90.3	90.4	90.5	90.6	90.6	90.7	90.9
≥ 1800	80.6	85.4	87.1	88.2	89.4	89.6	90.1	90.4	90.6	90.7	90.8	90.8	91.0	91.0	91.1	91.3
≥ 1500	81.5	86.5	88.2	89.4	90.7	90.9	91.4	91.7	91.9	92.0	92.1	92.1	92.3	92.3	92.4	92.6
≥ 1200	81.9	87.0	88.8	90.0	91.3	91.6	92.1	92.4	92.6	92.7	92.8	92.9	93.0	93.1	93.2	93.4
≥ 1000	82.2	87.4	89.3	90.6	91.9	92.2	92.8	93.1	93.4	93.5	93.6	93.7	93.8	93.8	94.0	94.1
≥ 900	82.4	87.8	89.6	90.9	92.3	92.6	93.2	93.5	93.8	93.9	94.0	94.1	94.2	94.2	94.4	94.5
≥ 800	82.6	88.0	89.9	91.2	92.7	92.9	93.6	93.9	94.2	94.3	94.5	94.5	94.7	94.7	94.8	95.0
≥ 700	82.6	88.1	90.1	91.5	93.1	93.3	94.0	94.3	94.6	94.7	94.9	94.9	95.1	95.1	95.2	95.4
≥ 600	82.7	88.2	90.2	91.7	93.4	93.7	94.4	94.7	95.0	95.2	95.3	95.4	95.5	95.6	95.7	95.9
≥ 500	83.0	88.5	90.6	92.1	94.1	94.5	95.3	95.7	96.0	96.2	96.4	96.4	96.6	96.6	96.8	96.9
≥ 400	83.0	88.6	90.7	92.3	94.3	94.8	95.8	96.3	96.7	96.9	97.1	97.2	97.4	97.4	97.5	97.7
≥ 300	83.0	88.6	90.9	92.4	94.6	95.0	96.1	96.7	97.2	97.5	97.9	97.9	98.1	98.2	98.4	98.5
≥ 200	83.0	88.6	90.9	92.4	94.6	95.1	96.2	96.8	97.5	97.8	98.3	98.3	98.7	98.8	99.1	99.5
≥ 100	83.0	88.6	90.9	92.4	94.6	95.1	96.2	96.8	97.5	97.9	98.3	98.4	98.8	98.9	99.3	100.0
≥ 0	83.0	88.6	90.9	92.4	94.6	95.1	96.2	96.8	97.5	97.9	98.3	98.4	98.8	98.9	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 7427

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835 K I SAWYER AFB MI

9-76

Aug

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥1/512
NO CEILING	58.2	61.0	63.4	64.0	65.5	66.4	66.6	67.0	67.0	67.1	67.1	67.2	67.5	67.8	67.9	68.3
≥ 20000	59.9	63.0	65.6	66.3	67.8	68.6	69.2	69.6	69.6	69.7	69.7	69.8	70.0	70.4	70.5	70.9
≥ 18000	60.0	63.1	65.7	66.4	67.9	68.8	69.3	69.7	69.7	69.8	69.8	69.9	70.2	70.5	70.6	71.0
≥ 15000	60.0	63.1	65.7	66.4	67.9	68.8	69.3	69.7	69.7	69.8	69.8	69.9	70.2	70.5	70.6	71.0
≥ 14000	60.3	63.5	66.3	67.0	68.5	69.4	69.9	70.4	70.4	70.5	70.5	70.6	70.8	71.1	71.2	71.7
≥ 12000	61.6	64.9	67.7	68.4	69.9	70.8	71.3	71.8	71.8	71.9	71.9	72.0	72.2	72.5	72.6	73.1
≥ 10000	63.4	66.7	69.5	70.3	71.8	72.7	73.3	73.7	73.7	73.8	73.8	73.9	74.1	74.5	74.6	75.0
≥ 9000	63.7	67.0	69.8	70.6	72.1	73.1	73.6	74.0	74.0	74.1	74.1	74.2	74.5	74.8	74.9	75.3
≥ 8000	64.5	68.0	70.9	71.7	73.2	74.1	74.7	75.1	75.1	75.2	75.2	75.3	75.5	75.9	76.0	76.4
≥ 7000	65.5	69.2	72.1	73.2	74.7	75.6	76.2	76.6	76.6	76.7	76.7	76.8	77.0	77.4	77.5	77.9
≥ 6000	66.9	70.6	73.5	74.6	76.1	77.0	77.6	78.0	78.0	78.1	78.1	78.2	78.4	78.8	78.9	79.3
≥ 5000	68.6	72.6	75.6	76.7	78.2	79.3	79.8	80.3	80.3	80.4	80.4	80.5	80.7	81.0	81.1	81.6
≥ 4500	69.0	73.0	76.0	77.0	78.6	79.6	80.2	80.6	80.6	80.7	80.7	80.8	81.0	81.4	81.5	81.9
≥ 4000	69.8	73.9	77.0	78.4	80.0	81.0	81.7	82.1	82.1	82.2	82.2	82.3	82.5	82.9	83.0	83.4
≥ 3500	70.5	74.6	77.8	79.3	80.8	81.9	82.5	83.0	83.0	83.1	83.1	83.2	83.4	83.7	83.8	84.3
≥ 3000	71.6	76.1	79.4	81.0	82.5	83.9	84.6	85.0	85.0	85.1	85.1	85.2	85.5	85.8	85.9	86.3
≥ 2500	72.0	76.5	79.8	81.6	83.1	84.5	85.1	85.6	85.6	85.7	85.7	85.8	86.0	86.3	86.4	86.9
≥ 2000	72.5	77.0	80.5	82.3	83.8	85.2	85.9	86.3	86.3	86.4	86.4	86.5	86.7	87.1	87.2	87.6
≥ 1800	72.6	77.3	80.7	82.5	84.1	85.5	86.1	86.5	86.5	86.6	86.6	86.7	87.0	87.3	87.4	87.8
≥ 1500	73.2	77.9	81.4	83.3	84.8	86.2	86.9	87.3	87.3	87.4	87.4	87.5	87.7	88.0	88.1	88.6
≥ 1200	73.9	78.8	82.2	84.2	85.7	87.2	87.8	88.3	88.3	88.4	88.4	88.5	88.7	89.0	89.1	89.5
≥ 1000	74.1	79.3	82.8	84.7	86.2	87.7	88.6	89.0	89.0	89.1	89.1	89.2	89.4	89.8	89.9	90.3
≥ 900	74.2	79.4	82.9	84.8	86.3	87.8	88.7	89.1	89.1	89.2	89.2	89.3	89.5	89.9	90.0	90.4
≥ 800	74.2	79.4	82.9	84.8	86.3	87.8	88.7	89.1	89.1	89.2	89.2	89.3	89.5	89.9	90.0	90.4
≥ 700	74.6	79.7	83.2	85.1	86.9	88.4	89.2	89.8	89.8	89.9	89.9	90.0	90.2	90.5	90.6	91.1
≥ 600	74.6	80.1	83.6	85.7	87.4	88.9	90.1	90.6	90.6	90.7	90.7	90.8	91.1	91.4	91.5	91.9
≥ 500	74.8	80.3	83.9	86.2	88.5	90.0	91.4	91.9	91.9	92.0	92.0	92.1	92.3	92.7	92.8	93.2
≥ 400	74.8	80.3	83.9	86.2	88.5	90.1	91.6	92.1	92.1	92.2	92.2	92.3	92.8	93.1	93.2	93.8
≥ 300	74.8	80.3	83.9	86.2	88.9	90.8	92.3	93.4	93.6	93.8	94.3	94.4	94.8	95.2	95.3	95.9
≥ 200	74.8	80.3	83.9	86.2	88.9	90.8	92.5	94.0	94.3	94.4	95.0	95.2	95.8	96.2	96.3	97.0
≥ 100	74.8	80.3	83.9	86.2	89.0	91.1	92.7	94.3	94.6	94.7	95.4	95.5	96.3	97.0	97.3	100.0
≥ 0	74.8	80.3	83.9	86.2	89.0	91.1	92.7	94.3	94.6	94.7	95.4	95.5	96.3	97.0	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS 928

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K. I. SAWYER AFB MI

9-76

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS:

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES																
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512	≥ 1/1024
NO CEILING	55.4	58.9	61.1	62.0	63.8	64.5	64.8	65.2	65.3	65.4	65.4	65.6	66.0	66.0	66.2	66.4	66.4
≥ 20000	56.3	60.0	62.4	63.5	65.4	66.1	66.5	67.0	67.1	67.4	67.4	67.5	67.9	67.9	68.1	68.4	68.4
≥ 18000	56.3	60.2	62.5	63.6	65.7	66.3	66.7	67.2	67.3	67.6	67.6	67.7	68.1	68.1	68.4	68.6	68.6
≥ 16000	56.3	60.2	62.5	63.7	65.8	66.4	66.8	67.3	67.4	67.7	67.7	67.8	68.3	68.3	68.5	68.7	68.7
≥ 14000	56.4	60.4	62.9	64.0	66.2	66.8	67.3	67.7	67.8	68.1	68.1	68.3	68.7	68.7	68.9	69.1	69.1
≥ 12000	57.0	61.1	63.7	64.9	67.1	67.7	68.3	68.7	68.8	69.1	69.1	69.2	69.7	69.7	69.9	70.1	70.1
≥ 10000	58.7	62.9	65.4	66.6	68.8	69.4	70.0	70.4	70.5	70.8	70.8	71.0	71.4	71.4	71.6	71.8	71.8
≥ 9000	58.7	62.9	65.4	66.6	68.8	69.4	70.0	70.4	70.5	70.8	70.8	71.0	71.4	71.4	71.6	71.8	71.8
≥ 8000	59.2	63.4	66.2	67.4	69.5	70.2	70.7	71.2	71.3	71.7	71.7	71.8	72.2	72.2	72.5	72.7	72.7
≥ 7000	60.5	64.9	67.7	68.9	71.1	71.7	72.2	72.7	72.8	73.2	73.2	73.3	73.8	73.8	74.0	74.2	74.2
≥ 6000	61.6	66.1	68.9	70.1	72.2	72.9	73.4	73.9	74.0	74.4	74.4	74.5	74.9	74.9	75.2	75.4	75.4
≥ 5000	62.7	67.5	70.6	71.8	74.0	74.6	75.2	75.6	75.7	76.1	76.1	76.2	76.7	76.7	76.9	77.1	77.1
≥ 4500	63.4	68.1	71.3	72.5	74.6	75.3	75.8	76.2	76.3	76.8	76.8	76.9	77.3	77.3	77.5	77.8	77.8
≥ 4000	64.9	70.3	73.7	74.8	77.4	78.1	78.6	79.2	79.3	79.7	79.7	79.8	80.2	80.2	80.5	80.7	80.7
≥ 3500	65.2	71.0	74.5	75.7	78.3	79.0	79.7	80.2	80.3	80.8	80.8	80.9	81.3	81.3	81.5	81.7	81.7
≥ 3000	65.7	71.6	75.3	76.6	79.3	80.1	80.9	81.4	81.5	82.2	82.2	82.3	82.7	82.7	82.9	83.2	83.2
≥ 2500	66.1	72.0	75.7	77.1	79.8	80.7	81.4	82.0	82.1	82.7	82.7	82.8	83.3	83.3	83.5	83.7	83.7
≥ 2000	66.3	72.5	76.1	77.6	80.3	81.2	82.0	82.5	82.6	83.3	83.3	83.4	83.8	83.8	84.0	84.2	84.2
≥ 1800	66.7	72.9	76.6	78.1	80.8	81.6	82.4	82.9	83.0	83.7	83.7	83.8	84.2	84.2	84.4	84.7	84.7
≥ 1500	67.1	73.5	77.3	78.8	81.5	82.4	83.2	83.7	83.8	84.4	84.4	84.6	85.0	85.0	85.2	85.4	85.4
≥ 1200	67.6	74.2	78.0	79.5	82.3	83.2	83.9	84.4	84.6	85.2	85.2	85.3	85.7	85.7	86.0	86.2	86.2
≥ 1000	68.0	74.9	79.0	80.6	83.7	84.7	85.5	86.1	86.2	86.8	86.8	86.9	87.4	87.4	87.6	87.8	87.8
≥ 900	68.1	75.1	79.3	80.8	83.9	84.9	85.9	86.4	86.5	87.1	87.1	87.3	87.7	87.7	87.9	88.1	88.1
≥ 800	68.1	75.1	79.3	80.8	83.9	84.9	85.9	86.6	86.7	87.4	87.4	87.5	87.9	87.9	88.1	88.3	88.3
≥ 700	68.5	75.5	79.7	81.2	84.6	85.5	86.5	87.4	87.5	88.1	88.1	88.2	88.7	88.7	88.9	89.1	89.1
≥ 600	68.5	75.7	79.9	81.4	84.9	85.9	86.9	87.8	87.9	88.6	88.6	88.7	89.1	89.1	89.3	89.5	89.5
≥ 500	68.6	75.9	80.3	82.1	85.9	86.9	88.1	89.0	89.1	89.8	89.8	90.0	90.4	90.4	90.6	90.8	90.8
≥ 400	68.6	76.0	80.5	82.3	86.1	87.3	89.2	90.2	90.3	91.0	91.1	91.3	91.7	91.7	91.9	92.1	92.1
≥ 300	68.6	76.0	80.5	82.3	86.4	87.6	89.7	90.7	91.0	91.9	92.3	92.4	93.2	93.2	93.4	94.2	94.2
≥ 200	68.6	76.0	80.5	82.5	86.6	87.9	90.4	91.6	92.0	92.9	93.3	93.4	94.7	94.8	95.1	96.2	96.2
≥ 100	68.6	76.0	80.5	82.5	86.6	87.9	90.6	91.8	92.2	93.2	93.7	94.0	95.5	95.8	96.3	99.7	99.7
≥ 0	68.6	76.0	80.5	82.5	86.6	87.9	90.6	91.8	92.2	93.2	93.7	94.0	95.5	95.8	96.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 926

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-76

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS:

0600-0800

CEILING FEET	VISIBILITY STATISTICS															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥.5	≥.25	≥.1	≥.05	≥.025	≥.01	≥.005	≥.0025	≥.001
NO CEILING	48.8	51.9	53.1	54.1	55.3	55.6	56.0	56.7	57.3	57.4	57.9	57.9	58.5	58.5	58.8	59.5
≥ 20000	51.5	54.8	56.0	57.2	58.5	58.8	59.5	60.1	60.8	60.9	61.3	61.3	62.0	62.0	62.3	62.9
IV ≥ 18000	51.5	54.8	56.0	57.2	58.6	58.9	59.7	60.3	61.0	61.1	61.5	61.5	62.2	62.2	62.5	63.1
IV ≥ 16000	51.9	55.3	56.5	57.7	59.1	59.4	60.1	60.8	61.4	61.5	62.0	62.0	62.7	62.7	63.0	63.7
IV ≥ 14000	52.5	56.0	57.2	58.4	59.8	60.1	60.9	61.5	62.2	62.3	62.7	62.7	63.5	63.5	63.8	64.4
IV ≥ 12000	53.4	57.2	58.4	59.6	61.1	61.4	62.4	63.0	63.7	63.8	64.3	64.3	65.1	65.1	65.4	66.1
IV ≥ 10000	55.8	59.6	60.8	62.1	63.6	64.2	65.2	65.8	66.5	66.6	67.1	67.1	67.9	67.9	68.2	68.7
IV ≥ 9000	55.9	59.9	61.1	62.4	64.1	64.5	65.5	66.2	66.8	66.9	67.5	67.5	68.2	68.2	68.5	69.2
IV ≥ 8000	57.3	61.3	62.5	63.8	65.5	65.9	66.9	67.7	68.8	68.9	69.4	69.4	70.2	70.2	70.5	71.1
IV ≥ 7000	58.3	62.3	63.5	64.9	66.7	67.1	68.1	68.9	69.9	70.0	70.6	70.6	71.3	71.3	71.7	72.3
IV ≥ 6000	59.4	63.4	64.5	65.9	67.8	68.2	69.2	69.9	71.0	71.1	71.7	71.7	72.4	72.4	72.7	73.4
IV ≥ 5000	60.7	64.7	65.8	67.2	69.1	69.5	70.7	71.6	72.6	72.7	73.3	73.3	74.0	74.0	74.4	75.0
IV ≥ 4500	60.9	65.0	66.3	67.7	69.5	69.9	71.1	72.0	73.1	73.3	73.8	73.8	74.7	74.7	75.0	75.6
IV ≥ 4000	62.3	66.9	68.8	70.5	72.4	72.8	74.1	75.0	76.1	76.4	76.9	76.9	77.8	77.8	78.1	78.8
IV ≥ 3500	62.8	67.6	69.5	71.2	73.5	73.9	75.2	76.1	77.2	77.5	78.0	78.0	78.9	78.9	79.2	79.8
IV ≥ 3000	63.3	68.2	70.3	72.2	74.7	75.1	76.4	77.3	78.4	78.8	79.3	79.3	80.2	80.2	80.5	81.1
IV ≥ 2500	63.7	68.8	70.8	72.7	75.2	75.6	76.9	77.8	79.0	79.3	79.8	79.8	80.7	80.7	81.0	81.7
IV ≥ 2000	64.4	69.5	71.6	73.5	76.0	76.4	77.7	78.6	79.7	80.1	80.6	80.6	81.5	81.5	81.8	82.4
IV ≥ 1800	65.0	70.0	72.1	74.1	76.6	77.0	78.3	79.2	80.4	80.7	81.3	81.3	82.1	82.1	82.4	83.1
IV ≥ 1500	65.5	70.7	72.8	74.9	77.5	77.9	79.2	80.1	81.3	81.6	82.1	82.1	83.0	83.0	83.3	83.9
IV ≥ 1200	65.7	70.9	73.1	75.1	77.8	78.2	79.5	80.4	81.6	81.9	82.4	82.4	83.3	83.3	83.6	84.4
IV ≥ 1000	65.9	71.6	73.9	76.0	79.1	79.5	81.0	81.9	83.1	83.4	83.9	83.9	84.8	84.8	85.1	85.9
IV ≥ 900	66.3	71.9	74.4	76.4	79.6	80.1	81.6	82.4	83.6	83.9	84.5	84.5	85.3	85.3	85.7	86.4
IV ≥ 800	66.3	71.9	74.4	76.5	79.7	80.2	81.7	82.7	83.8	84.2	84.7	84.7	85.6	85.6	85.9	86.6
IV ≥ 700	66.4	72.1	74.6	76.8	80.2	80.6	82.2	83.2	84.4	84.7	85.2	85.2	86.1	86.1	86.4	87.2
IV ≥ 500	66.4	72.2	75.0	77.3	80.6	81.3	82.9	83.8	85.2	85.7	86.2	86.2	87.1	87.1	87.4	88.1
IV ≥ 400	66.5	72.3	75.2	77.6	81.4	82.1	84.4	85.3	86.9	87.5	88.0	88.0	89.0	89.0	89.4	90.2
IV ≥ 300	66.5	72.5	75.4	77.9	81.8	82.5	85.0	86.1	87.6	88.4	88.9	88.9	89.9	90.2	90.6	91.4
IV ≥ 200	66.5	72.5	75.4	77.9	82.1	83.0	85.7	86.7	88.4	89.4	90.5	90.6	91.9	92.3	93.1	94.0
IV ≥ 100	66.5	72.5	75.4	77.9	82.2	83.1	86.0	87.2	89.0	90.2	91.5	91.6	93.4	94.2	95.2	96.8
IV ≥ 0	66.5	72.5	75.4	77.9	82.2	83.1	86.0	87.3	89.1	90.3	91.8	91.9	93.8	94.6	95.8	99.4
IV ≥ 0	66.5	72.5	75.4	77.9	82.2	83.1	86.0	87.3	89.1	90.3	91.8	91.9	93.8	94.6	95.8	100.0

TOTAL NUMBER OF OBSERVATIONS 928

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835 K I SAWYER AFB MI

9-76

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES																		
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9
NO CEILING	47.5	50.1	50.7	51.3	51.8	52.1	52.4	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.9	52.9	53.0		
≥ 25000	53.0	55.8	56.7	57.5	57.9	58.2	58.6	58.7	58.8	58.8	58.8	58.8	58.8	58.8	59.0	59.0	59.1		
≥ 18000	53.4	56.3	57.4	58.1	58.6	58.9	59.2	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.6	59.6	59.7		
≥ 16000	53.6	56.5	57.6	58.3	58.8	59.1	59.4	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.8	59.8	60.0		
≥ 14000	54.0	56.9	58.2	59.0	59.4	59.7	60.1	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.5	60.5	60.6		
≥ 12000	54.8	57.8	59.1	59.8	60.3	60.6	60.9	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.4	61.4	61.5		
≥ 10000	57.1	60.2	61.5	62.2	62.6	63.0	63.3	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.7	63.7	63.8		
≥ 9000	57.9	61.0	62.3	63.1	63.5	63.8	64.2	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.6	64.6	64.7		
≥ 8000	59.7	63.0	64.5	65.2	65.8	66.1	66.4	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.8	66.8	67.0		
≥ 7000	60.6	63.8	65.3	66.1	66.8	67.2	67.5	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.9	67.9	68.0		
≥ 6000	62.0	65.2	66.7	67.5	68.2	68.6	68.9	69.0	69.1	69.2	69.2	69.2	69.2	69.2	69.4	69.4	69.5		
≥ 5000	63.0	66.4	68.0	68.8	69.5	69.9	70.3	70.4	70.6	70.8	70.8	70.8	70.8	70.8	71.0	71.0	71.2		
≥ 4500	63.7	67.3	68.9	69.6	70.4	70.7	71.2	71.4	71.6	71.8	71.8	71.8	71.8	71.8	72.0	72.0	72.1		
≥ 4000	65.2	68.9	70.5	71.4	72.2	72.6	73.3	73.5	73.7	74.0	74.0	74.0	74.0	74.0	74.2	74.2	74.3		
≥ 3500	66.3	70.2	71.8	72.7	73.5	73.8	74.6	74.8	75.0	75.2	75.2	75.2	75.2	75.2	75.5	75.5	75.6		
≥ 3000	68.4	72.4	74.5	75.5	76.3	76.6	77.4	77.6	77.8	78.0	78.1	78.1	78.1	78.1	78.4	78.4	78.5		
≥ 2500	69.1	73.5	75.6	76.6	77.5	77.8	78.5	78.8	79.0	79.2	79.3	79.3	79.3	79.3	79.5	79.5	79.7		
≥ 2000	70.3	74.8	76.9	78.0	79.1	79.4	80.2	80.4	80.6	80.8	80.9	80.9	80.9	80.9	81.2	81.2	81.3		
≥ 1800	70.7	75.3	77.4	78.7	79.8	80.1	80.8	81.1	81.3	81.5	81.6	81.6	81.6	81.6	81.8	81.8	81.9		
≥ 1500	72.3	77.5	79.7	80.9	82.0	82.3	83.1	83.3	83.5	83.7	83.9	83.9	83.9	83.9	84.1	84.1	84.2		
≥ 1200	73.3	78.8	80.9	82.2	83.4	83.7	84.6	84.8	85.0	85.3	85.4	85.4	85.4	85.4	85.6	85.6	85.7		
≥ 1000	74.3	80.0	82.3	83.7	85.1	85.6	86.4	86.7	86.9	87.1	87.3	87.3	87.3	87.4	87.6	87.6	87.7		
≥ 900	74.6	80.7	83.1	84.5	85.9	86.3	87.2	87.4	87.6	87.8	88.1	88.1	88.1	88.2	88.4	88.4	88.5		
≥ 800	74.9	81.1	83.4	84.8	86.2	86.7	87.5	87.7	87.9	88.3	88.5	88.5	88.5	88.6	88.8	88.8	88.9		
≥ 700	75.2	81.6	84.1	85.5	86.9	87.4	88.4	88.6	88.8	89.2	89.5	89.5	89.5	89.6	89.8	89.8	89.9		
≥ 600	75.7	82.0	84.6	86.1	87.9	88.6	89.6	89.9	90.1	90.5	90.7	90.7	90.7	90.9	91.1	91.1	91.2		
≥ 500	76.0	82.6	85.4	87.1	89.7	90.4	91.5	91.9	92.2	92.8	93.0	93.0	93.1	93.3	93.3	93.4			
≥ 400	76.0	82.9	85.9	87.8	90.6	91.5	92.8	93.4	93.9	94.7	94.9	94.9	95.0	95.3	95.3	95.4			
≥ 300	76.1	83.1	86.2	88.3	91.2	92.0	93.6	94.4	94.9	96.1	96.6	96.6	96.7	96.9	96.9	97.0			
≥ 200	76.1	83.1	86.2	88.3	91.2	92.0	93.6	94.5	95.3	96.6	97.6	97.8	98.1	98.6	98.6	98.8	99.0		
≥ 100	76.1	83.1	86.2	88.3	91.2	92.0	93.6	94.5	95.3	96.6	97.6	97.8	98.1	98.6	98.9	99.9			
≥ 0	76.1	83.1	86.2	88.3	91.2	92.0	93.6	94.5	95.3	96.6	97.6	97.8	98.1	98.6	98.9	100.0			

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

1978

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	45.5	47.6	47.8	47.8	48.3	48.5	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 20000	51.8	54.5	54.7	54.7	55.3	55.5	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IV 18000	52.9	55.5	55.8	55.8	56.4	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 16000	53.3	56.0	56.2	56.2	56.8	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 14000	54.0	56.7	56.9	56.9	57.6	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 12000	56.1	59.0	59.2	59.2	59.8	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 10000	58.3	61.4	61.8	61.8	62.4	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
IV 9000	59.0	62.0	62.4	62.4	63.1	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
IV 8000	59.8	63.0	63.4	63.4	64.0	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IV 7000	60.5	63.7	64.2	64.2	64.8	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
IV 6000	62.0	65.3	65.8	65.8	66.4	66.6	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IV 5000	62.9	66.5	67.0	67.0	67.6	67.8	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
IV 4500	63.8	67.5	67.9	67.9	68.6	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
IV 4000	67.9	71.8	72.3	72.3	73.0	73.2	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
IV 3500	70.4	74.3	74.9	74.9	75.6	75.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 3000	75.0	79.0	79.7	79.9	80.8	81.1	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
IV 2500	77.1	81.3	81.9	82.1	83.1	83.3	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
IV 2000	80.3	84.6	85.3	85.6	86.5	86.8	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 1800	80.6	85.1	85.8	86.1	87.2	87.4	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
IV 1500	82.2	87.3	87.9	88.3	89.3	89.6	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
IV 1200	82.7	88.2	88.8	89.1	90.4	90.7	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 1000	83.3	89.1	89.8	90.3	91.8	92.1	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
IV 900	83.5	89.5	90.2	90.9	92.6	92.9	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 800	83.5	89.6	90.3	91.1	92.9	93.2	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 700	83.6	89.7	90.5	91.5	93.4	93.8	94.2	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4
IV 600	84.3	90.4	91.4	92.4	94.6	94.9	95.4	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6
IV 500	84.3	90.7	91.9	93.1	95.7	96.1	96.6	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0
IV 400	84.3	91.0	92.1	93.3	96.0	96.4	96.9	97.4	97.6	97.8	97.8	97.8	97.8	97.8	97.8
IV 300	84.5	91.2	92.4	93.6	96.7	97.1	97.5	98.2	98.4	98.7	98.9	98.9	99.0	99.0	99.0
IV 200	84.5	91.2	92.4	93.6	96.7	97.1	97.5	98.3	98.6	99.0	99.2	99.2	99.4	99.4	99.7
IV 100	84.5	91.2	92.4	93.6	96.7	97.1	97.5	98.3	98.6	99.0	99.4	99.4	99.5	99.5	99.7
IV 0	84.5	91.2	92.4	93.6	96.7	97.1	97.5	98.3	98.6	99.0	99.4	99.4	99.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94830

K I SAWYER AFB MI

69-78

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING ≥ 20000	49.4	50.8	51.1	51.2	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 18000	55.3	57.5	58.0	58.1	58.4	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 16000	55.8	57.9	58.4	58.6	58.9	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
IV 14000	56.2	58.4	59.0	59.1	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
IV 12000	56.5	58.8	59.5	59.6	60.0	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
IV 10000	59.2	61.6	62.3	62.4	62.8	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 9000	61.8	64.3	65.0	65.1	65.4	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
IV 8000	62.5	65.2	66.0	66.1	66.4	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IV 7000	64.0	67.0	67.7	67.8	68.1	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
IV 6000	64.6	67.5	68.2	68.4	68.7	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
IV 5000	66.1	69.1	69.9	70.0	70.3	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
IV 4500	68.1	71.5	72.3	72.4	72.8	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
IV 4000	69.1	72.4	73.3	73.4	73.7	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
IV 3500	72.1	76.1	77.2	77.3	77.6	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
IV 3000	75.0	79.3	80.4	80.5	80.8	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
IV 2500	79.3	83.6	84.7	84.8	85.1	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
IV 2000	81.7	86.2	87.3	87.5	87.8	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
IV 1800	83.3	87.9	89.2	89.5	89.9	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
IV 1500	83.4	88.2	89.5	89.7	90.1	90.7	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
IV 1200	84.1	89.0	90.3	90.5	91.0	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IV 1000	85.1	90.1	91.4	91.6	92.4	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
IV 900	85.9	91.0	92.2	92.5	93.5	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 800	86.2	91.3	92.6	92.8	94.0	94.6	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
IV 700	86.3	91.9	93.2	93.4	94.6	95.3	95.3	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 600	86.3	92.1	93.5	93.8	95.5	96.2	96.2	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 500	86.4	92.5	93.9	94.3	96.0	96.8	97.1	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 400	86.4	92.6	94.1	94.6	96.2	97.1	97.4	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 300	86.4	92.6	94.1	94.6	96.6	97.4	97.8	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 200	86.4	92.6	94.1	94.6	96.6	97.4	97.8	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 100	86.4	92.6	94.1	94.6	96.6	97.4	97.8	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 0	86.4	92.6	94.1	94.6	96.6	97.4	97.8	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

69-78

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING ≥ 20000	57.6 62.8	59.7 64.9	60.8 66.2	61.5 67.1	61.8 67.5	61.8 67.5	61.9 67.6	61.9 67.6	61.9 67.6	61.9 67.6	61.9 67.6	61.9 67.6	61.9 67.6	61.9 67.6	61.9 67.6	61.9 67.6
IV 18000 16000	63.3 63.5	65.7 66.1	67.0 67.4	67.8 68.2	68.2 68.7	68.4 68.8	68.5 68.9	68.5 68.9	68.5 68.9	68.5 68.9	68.5 68.9	68.5 68.9	68.5 68.9	68.5 68.9	68.5 68.9	68.5 68.9
IV 14000 12000	64.3 66.2	66.8 69.1	68.1 70.4	69.1 71.4	69.6 71.9	69.8 72.0	70.0 72.2	70.0 72.2	70.0 72.2	70.0 72.2	70.0 72.2	70.0 72.2	70.0 72.2	70.0 72.2	70.0 72.2	70.0 72.2
IV 10000 9000	67.8 68.5	70.7 71.7	72.1 73.2	73.1 74.2	73.6 74.7	73.7 74.8	74.0 75.0	74.0 75.0	74.0 75.0	74.0 75.0	74.0 75.0	74.0 75.0	74.0 75.0	74.0 75.0	74.0 75.0	74.0 75.0
IV 8000 7000	70.2 70.7	74.3 74.8	75.8 76.5	76.7 77.5	77.3 78.0	77.4 78.1	77.7 78.5	77.7 78.5	77.7 78.5	77.7 78.5	77.7 78.5	77.7 78.5	77.7 78.5	77.7 78.5	77.7 78.5	77.7 78.5
IV 6000 5000	71.9 79.2	76.0 79.5	77.7 81.4	78.8 82.5	79.3 83.0	79.4 83.1	79.8 83.4	79.8 83.4	79.8 83.4	79.8 83.4	79.8 83.4	79.8 83.4	79.8 83.4	79.8 83.4	79.8 83.4	79.8 83.4
IV 4500 4000	75.8 77.4	80.2 82.0	82.0 83.9	83.1 85.0	83.6 85.6	83.7 85.7	84.1 86.0	84.2 86.1	84.2 86.1	84.2 86.1	84.2 86.1	84.2 86.1	84.2 86.1	84.2 86.1	84.2 86.1	84.2 86.1
IV 3500 3000	78.4 79.4	83.3 84.8	85.1 86.7	86.5 88.1	87.1 88.6	87.3 88.8	87.6 89.1	87.7 89.2	87.7 89.2	87.8 89.3	87.8 89.3	87.8 89.3	87.8 89.3	87.8 89.3	87.8 89.3	87.8 89.3
IV 2500 2000	80.8 81.4	86.2 86.9	88.2 88.9	89.8 90.6	90.3 91.2	90.6 91.5	91.1 91.9	91.2 92.0	91.2 92.0	91.3 92.1	91.3 92.1	91.3 92.1	91.3 92.1	91.3 92.1	91.3 92.1	91.3 92.1
IV 1800 1500	81.5 82.1	87.0 87.6	89.0 89.7	90.7 91.4	91.3 92.0	91.6 92.4	92.0 92.8	92.1 93.0	92.1 93.0	92.2 93.1	92.2 93.1	92.2 93.1	92.2 93.1	92.2 93.1	92.2 93.1	92.2 93.1
IV 1200 1000	82.3 82.9	87.8 88.5	89.9 90.6	91.7 92.6	92.6 93.5	92.9 94.0	93.3 94.4	93.5 94.6	93.6 94.7	93.8 94.8	93.8 94.8	93.8 94.8	93.8 94.8	93.8 94.8	93.8 94.8	93.8 94.8
IV 900 800	83.0 83.2	88.6 88.9	90.7 91.1	92.7 93.0	93.8 94.1	94.2 94.5	94.6 94.9	94.8 95.2	94.9 95.3	95.0 95.4	95.0 95.4	95.0 95.4	95.0 95.4	95.0 95.4	95.0 95.4	95.0 95.4
IV 700 600	83.3 83.3	89.1 89.3	91.4 91.6	93.3 93.6	94.6 94.9	95.2 95.5	95.8 96.1	96.0 96.3	96.1 96.4	96.2 96.6	96.2 96.6	96.2 96.6	96.2 96.6	96.2 96.6	96.2 96.6	96.2 96.6
IV 500 400	83.4 83.4	89.6 89.7	91.8 91.9	93.9 94.0	95.2 95.4	95.7 95.9	96.3 96.8	96.6 97.0	96.7 97.3	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5
IV 300 200	83.4 83.4	89.7 89.7	92.0 92.0	94.1 94.1	95.7 95.7	96.3 96.3	97.5 97.6	98.0 98.2	98.4 98.6	98.7 98.9	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0
IV 100 0	83.4 83.4	89.7 89.7	92.0 92.0	94.1 94.1	95.7 95.7	96.3 96.3	97.6 97.6	98.2 98.2	98.6 98.6	98.9 98.9	99.0 99.0	99.0 99.0	99.0 99.0	99.0 99.0	99.0 99.0	99.0 99.0

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

69-70

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	60.7	62.9	65.0	65.9	66.9	67.0	67.2	67.3	67.3	67.5	67.5	67.5	67.7	67.7	67.7	67.7
≥ 20000	64.0	66.5	68.8	69.8	70.8	70.9	71.4	71.6	71.6	71.7	71.7	71.7	71.9	71.9	71.9	71.9
≥ 18000	64.3	66.8	69.1	70.2	71.1	71.2	71.8	71.9	71.9	72.0	72.0	72.0	72.2	72.2	72.2	72.2
≥ 16000	64.5	67.0	69.3	70.4	71.3	71.4	72.0	72.1	72.1	72.2	72.2	72.2	72.4	72.4	72.4	72.4
≥ 14000	65.2	67.9	70.2	71.4	72.4	72.5	73.1	73.2	73.2	73.3	73.3	73.3	73.5	73.5	73.5	73.5
≥ 12000	66.4	69.1	71.3	72.6	73.6	73.7	74.4	74.5	74.5	74.6	74.6	74.6	74.8	74.8	74.8	74.8
≥ 10000	67.6	70.3	72.5	73.8	74.9	75.0	75.6	75.8	75.8	75.9	75.9	75.9	76.1	76.1	76.1	76.1
≥ 9000	67.7	70.4	72.6	74.0	75.1	75.3	76.0	76.1	76.1	76.2	76.2	76.2	76.4	76.4	76.4	76.4
≥ 8000	69.2	72.1	74.6	76.0	77.2	77.4	78.1	78.3	78.3	78.4	78.4	78.4	78.7	78.7	78.7	78.7
≥ 7000	71.0	73.9	76.4	77.8	79.0	79.3	80.1	80.3	80.3	80.4	80.4	80.4	80.6	80.6	80.6	80.6
≥ 6000	72.1	75.0	77.5	79.0	80.2	80.5	81.3	81.5	81.5	81.6	81.6	81.6	81.8	81.8	81.8	81.8
≥ 5000	73.9	76.8	79.3	80.8	82.0	82.3	83.1	83.3	83.3	83.4	83.4	83.4	83.6	83.6	83.6	83.6
≥ 4500	74.5	77.4	80.0	81.5	82.7	83.0	83.7	83.9	83.9	84.1	84.1	84.1	84.3	84.3	84.3	84.3
≥ 4000	75.2	78.1	80.9	83.0	84.3	84.6	85.3	85.6	85.6	85.7	85.7	85.7	85.9	85.9	85.9	85.9
≥ 3500	75.6	78.9	81.7	83.8	85.1	85.5	86.2	86.4	86.4	86.5	86.5	86.5	86.7	86.7	86.7	86.7
≥ 3000	76.1	79.4	82.2	84.5	85.9	86.2	87.0	87.2	87.2	87.3	87.3	87.3	87.5	87.5	87.5	87.5
≥ 2500	76.9	80.3	83.1	85.5	86.9	87.2	87.9	88.1	88.1	88.3	88.3	88.3	88.5	88.5	88.5	88.5
≥ 2000	77.4	80.9	83.7	86.2	87.6	87.9	88.7	88.9	88.9	89.0	89.0	89.0	89.2	89.2	89.2	89.2
≥ 1800	77.7	81.3	84.1	86.5	87.9	88.3	89.0	89.2	89.2	89.3	89.3	89.3	89.5	89.5	89.5	89.5
≥ 1500	78.1	81.9	84.7	87.2	88.7	89.0	89.8	90.0	90.0	90.1	90.1	90.1	90.3	90.3	90.3	90.3
≥ 1200	78.4	82.2	85.0	87.5	89.2	89.5	90.3	90.5	90.5	90.6	90.6	90.6	90.8	90.8	90.8	90.8
≥ 1000	78.9	82.7	85.5	87.9	89.7	90.0	91.1	91.3	91.3	91.4	91.4	91.4	91.6	91.6	91.6	91.6
≥ 900	79.0	82.8	85.6	88.1	90.0	90.3	91.4	91.6	91.6	91.7	91.7	91.7	91.9	91.9	91.9	91.9
≥ 800	79.0	82.9	85.7	88.3	90.2	90.5	91.6	91.8	91.8	91.9	91.9	91.9	92.1	92.1	92.1	92.1
≥ 700	79.0	82.9	85.7	88.3	90.2	90.5	91.7	91.9	91.9	92.0	92.0	92.0	92.2	92.2	92.2	92.2
≥ 600	79.4	83.3	86.1	88.7	90.7	91.1	92.5	92.7	92.7	92.8	92.8	92.8	93.0	93.0	93.0	93.0
≥ 500	79.6	83.6	86.4	89.0	91.2	91.6	93.2	93.4	93.4	93.6	93.6	93.6	93.9	93.9	93.9	93.9
≥ 400	79.7	83.7	86.6	89.2	91.5	91.9	93.5	94.0	94.0	94.2	94.2	94.2	94.4	94.4	94.4	94.4
≥ 300	79.7	83.7	86.6	89.2	91.7	92.6	94.2	95.2	95.6	95.0	96.2	96.2	96.7	96.8	97.0	97.0
≥ 200	79.7	83.7	86.6	89.2	91.8	92.7	94.4	95.5	96.1	96.7	96.9	96.9	97.4	97.6	97.7	98.1
≥ 100	79.7	83.7	86.6	89.2	91.9	92.8	94.5	95.8	96.4	97.0	97.2	97.2	97.8	98.2	98.5	100.0
≥ 0	79.7	83.7	86.6	89.2	91.9	92.8	94.5	95.8	96.4	97.0	97.2	97.2	97.8	98.2	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 928

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94826
STATION

K I SAWYER AFB MI
STATION NAME

62-78
YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
MONTHS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	52.9	55.4	56.5	57.2	58.1	58.5	58.7	58.9	59.0	59.1	59.1	59.2	59.3	59.4	59.5	59.7
≥ 20000	56.8	59.6	61.1	61.8	62.7	63.1	63.4	63.6	63.7	63.8	63.9	63.9	64.1	64.2	64.2	64.4
≥ 18000	57.2	60.0	61.5	62.2	63.2	63.6	63.9	64.1	64.2	64.3	64.4	64.4	64.6	64.7	64.7	64.9
≥ 16000	57.4	60.3	61.8	62.5	63.5	63.9	64.2	64.4	64.5	64.6	64.7	64.7	64.9	65.0	65.0	65.2
≥ 14000	57.9	60.9	62.4	63.2	64.2	64.6	64.9	65.2	65.3	65.4	65.4	65.4	65.6	65.7	65.8	66.0
≥ 12000	59.3	62.5	64.0	64.8	65.8	66.2	66.6	66.8	66.9	67.0	67.1	67.1	67.3	67.4	67.5	67.6
≥ 10000	61.3	64.5	66.1	66.9	67.9	68.3	68.8	69.0	69.1	69.2	69.2	69.3	69.5	69.5	69.6	69.8
≥ 9000	61.7	65.0	66.6	67.4	68.5	68.9	69.3	69.5	69.6	69.7	69.8	69.8	70.0	70.1	70.2	70.3
≥ 8000	63.0	66.5	68.2	69.0	70.1	70.5	71.0	71.2	71.4	71.5	71.5	71.5	71.7	71.8	71.9	72.1
≥ 7000	64.0	67.5	69.2	70.1	71.2	71.7	72.1	72.4	72.5	72.6	72.7	72.7	72.9	73.0	73.1	73.2
≥ 6000	65.2	68.8	70.6	71.5	72.6	73.0	73.5	73.7	73.9	74.0	74.1	74.1	74.3	74.4	74.5	74.6
≥ 5000	66.9	70.7	72.5	73.4	74.5	75.0	75.5	75.8	75.9	76.1	76.1	76.2	76.4	76.4	76.5	76.7
≥ 4500	67.5	71.4	73.2	74.1	75.2	75.7	76.2	76.5	76.6	76.8	76.9	76.9	77.1	77.2	77.2	77.4
≥ 4000	69.4	73.5	75.5	76.6	77.8	78.3	78.9	79.2	79.3	79.5	79.6	79.6	79.8	79.9	79.9	80.1
≥ 3500	70.5	74.9	77.0	78.1	79.3	79.8	80.4	80.7	80.9	81.1	81.1	81.2	81.4	81.5	81.5	81.7
≥ 3000	72.3	76.9	79.1	80.3	81.7	82.2	82.8	83.2	83.3	83.5	83.6	83.6	83.9	83.9	84.0	84.2
≥ 2500	73.4	78.1	80.3	81.6	83.0	83.5	84.2	84.5	84.7	84.9	84.9	85.0	85.2	85.3	85.3	85.5
≥ 2000	74.5	79.3	81.5	82.9	84.3	84.9	85.5	85.8	86.0	86.2	86.3	86.3	86.5	86.6	86.7	86.9
≥ 1800	74.8	79.6	81.9	83.3	84.7	85.3	85.9	86.2	86.4	86.6	86.7	86.7	86.9	87.0	87.1	87.3
≥ 1500	75.6	80.7	83.0	84.4	85.9	86.4	87.1	87.4	87.6	87.8	87.9	87.9	88.1	88.2	88.2	88.4
≥ 1200	76.2	81.4	83.7	85.1	86.7	87.3	88.0	88.3	88.5	88.7	88.8	88.8	89.0	89.1	89.2	89.3
≥ 1000	76.7	82.1	84.5	86.0	87.8	88.5	89.2	89.6	89.8	90.0	90.1	90.1	90.3	90.4	90.5	90.7
≥ 900	76.9	82.4	84.8	86.4	88.3	88.9	89.7	90.0	90.2	90.4	90.5	90.5	90.8	90.8	90.9	91.1
≥ 800	77.0	82.6	85.0	86.6	88.5	89.1	89.9	90.3	90.5	90.7	90.8	90.9	91.1	91.2	91.2	91.4
≥ 700	77.1	82.8	85.3	86.9	89.0	89.6	90.5	90.9	91.1	91.3	91.4	91.5	91.7	91.8	91.9	92.1
≥ 600	77.3	83.2	85.7	87.4	89.6	90.3	91.2	91.7	91.9	92.1	92.3	92.3	92.5	92.6	92.7	92.9
≥ 500	77.5	83.4	86.1	87.9	90.4	91.2	92.3	92.8	93.1	93.4	93.5	93.5	93.8	93.9	94.0	94.2
≥ 400	77.5	83.6	86.3	88.2	90.8	91.6	92.9	93.5	93.9	94.3	94.4	94.5	94.7	94.8	95.0	95.2
≥ 300	77.5	83.6	86.4	88.3	91.2	92.1	93.6	94.4	94.9	95.4	95.9	95.9	96.3	96.5	96.6	97.0
≥ 200	77.5	83.6	86.4	88.3	91.2	92.2	93.7	94.7	95.4	96.0	96.5	96.6	97.3	97.5	97.7	98.3
≥ 100	77.5	83.6	86.4	88.3	91.2	92.2	93.8	94.9	95.5	96.1	96.7	96.8	97.5	97.9	98.2	99.9
≥ 0	77.5	83.6	86.4	88.3	91.2	92.2	93.8	94.9	95.5	96.1	96.7	96.8	97.5	97.9	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 7426

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-78

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	45.9	47.4	47.9	48.0	48.8	48.8	49.2	49.3	49.4	49.7	49.8	49.8	49.9	50.0	50.2	50.6
≥23000	49.9	51.4	51.9	52.0	52.8	52.8	53.4	53.6	53.7	53.9	54.0	54.0	54.1	54.2	54.4	54.8
≥18000	50.0	51.7	52.1	52.2	53.0	53.0	53.7	53.8	53.9	54.1	54.2	54.2	54.3	54.4	54.7	55.0
≥16000	50.3	52.0	52.4	52.6	53.3	53.3	54.0	54.1	54.2	54.4	54.6	54.6	54.7	54.8	55.0	55.3
≥14000	51.6	53.2	53.7	53.8	54.6	54.6	55.2	55.3	55.4	55.7	55.8	55.8	55.9	56.0	56.2	56.6
≥12000	52.0	53.7	54.1	54.2	55.0	55.0	55.8	55.9	56.0	56.2	56.3	56.3	56.4	56.6	56.8	57.1
≥10000	53.1	54.8	55.2	55.3	56.1	56.1	56.9	57.0	57.1	57.3	57.4	57.4	57.6	57.7	57.9	58.2
≥9000	54.0	55.8	56.2	56.3	57.1	57.1	57.9	58.0	58.1	58.3	58.4	58.4	58.6	58.7	58.9	59.2
≥8000	54.8	56.8	57.2	57.3	58.1	58.1	59.0	59.1	59.2	59.4	59.6	59.6	59.7	59.8	60.0	60.3
≥7000	55.2	57.7	58.1	58.2	59.0	59.0	60.0	60.1	60.2	60.4	60.6	60.6	60.7	60.8	61.0	61.3
≥6000	56.3	58.8	59.2	59.4	60.2	60.2	61.2	61.3	61.4	61.7	61.8	61.8	61.9	62.0	62.2	62.6
≥5000	59.8	62.9	63.3	63.6	64.3	64.3	65.4	65.6	65.7	65.9	66.0	66.0	66.1	66.4	66.7	67.0
≥4500	61.0	64.1	64.7	64.9	65.8	65.8	66.9	67.0	67.2	67.4	67.6	67.6	67.7	68.0	68.2	68.6
≥4000	63.8	67.6	68.1	68.3	69.6	69.6	70.7	70.9	71.1	71.3	71.4	71.4	71.6	71.9	72.1	72.4
≥3500	64.6	68.7	69.3	69.6	70.8	70.8	71.9	72.1	72.3	72.6	72.7	72.7	72.8	73.1	73.3	73.7
≥3000	65.7	70.0	70.8	71.3	72.8	72.8	74.0	74.2	74.4	74.7	74.8	74.8	74.9	75.2	75.4	75.8
≥2500	67.0	71.8	72.6	73.1	74.9	74.9	76.1	76.4	76.7	76.9	77.0	77.0	77.1	77.4	77.7	78.0
≥2000	68.3	73.3	74.2	75.0	76.8	76.8	78.1	78.4	78.7	78.9	79.0	79.0	79.1	79.4	79.7	80.0
≥1800	68.3	73.3	74.6	75.3	77.1	77.1	78.4	78.8	79.0	79.2	79.3	79.3	79.4	79.8	80.0	80.3
≥1500	69.6	74.8	76.1	77.1	79.2	79.2	80.6	80.9	81.1	81.3	81.4	81.4	81.6	81.9	82.1	82.4
≥1200	70.6	75.9	77.3	78.3	80.4	80.6	81.9	82.2	82.4	82.7	82.8	82.8	82.9	83.2	83.4	83.8
≥1000	71.1	76.4	77.9	78.9	81.3	81.6	82.9	83.2	83.4	83.7	83.8	83.8	83.9	84.2	84.4	84.8
≥900	71.3	76.7	78.1	79.6	82.1	82.3	83.7	84.0	84.2	84.4	84.6	84.6	84.7	85.0	85.2	85.6
≥800	71.7	77.1	78.7	80.2	82.8	83.1	84.4	84.8	85.0	85.2	85.3	85.3	85.4	85.8	86.0	86.3
≥700	71.7	77.3	78.9	80.4	83.3	83.8	85.1	85.4	85.7	85.9	86.0	86.0	86.1	86.4	86.7	87.0
≥600	71.9	77.8	79.7	81.3	84.9	85.4	86.8	87.1	87.3	87.6	87.7	87.7	87.8	88.1	88.3	88.7
≥500	72.0	78.1	80.1	81.8	85.0	86.4	88.3	88.7	89.0	89.2	89.3	89.3	89.4	89.8	90.0	90.2
≥400	72.4	78.8	80.8	82.4	86.9	87.6	89.9	90.6	91.0	91.2	91.3	91.3	91.4	91.8	92.0	92.3
≥300	72.4	79.0	81.1	82.8	87.3	88.3	91.2	92.2	93.1	93.7	94.2	94.2	94.3	94.7	94.9	95.2
≥200	72.4	79.0	81.1	82.8	87.6	88.6	91.4	92.8	94.0	94.7	96.0	96.1	97.0	97.4	98.2	98.7
≥100	72.4	79.0	81.1	82.8	87.6	88.6	91.4	92.8	94.0	94.7	96.0	96.1	97.2	97.7	99.0	99.8
≥0	72.4	79.0	81.1	82.8	87.6	88.6	91.4	92.8	94.0	94.7	96.0	96.1	97.2	97.7	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

69-78

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	41.8	42.3	42.8	43.0	43.6	43.7	44.5	44.6	45.1	45.3	45.7	45.8	45.9	46.3	46.6	46.9
≥ 20000	44.2	44.8	45.4	45.6	46.4	46.5	47.6	47.7	48.2	48.4	48.8	48.9	49.2	49.5	49.8	50.2
IV 18000	44.3	44.9	45.5	45.7	46.5	46.6	47.7	47.8	48.3	48.5	48.9	49.1	49.3	49.6	49.9	50.3
IV 16000	44.6	45.3	45.8	46.1	46.8	46.9	48.1	48.2	48.6	48.8	49.3	49.4	49.6	49.9	50.3	50.6
IV 14000	44.9	45.6	46.2	46.4	47.2	47.3	48.4	48.5	48.9	49.2	49.6	49.7	49.9	50.3	50.6	50.9
IV 12000	45.6	46.3	46.8	47.1	47.8	47.9	49.1	49.2	49.6	49.8	50.3	50.4	50.6	50.9	51.3	51.6
IV 10000	48.3	48.9	49.5	49.7	50.5	50.6	51.7	51.8	52.3	52.5	52.9	53.1	53.3	53.6	53.9	54.3
IV 9000	48.9	49.6	50.2	50.4	51.2	51.3	52.4	52.5	52.9	53.2	53.6	53.7	53.9	54.3	54.6	54.9
IV 8000	50.1	50.8	51.5	51.8	52.9	53.1	54.2	54.3	54.7	54.9	55.4	55.5	55.7	56.1	56.4	56.7
IV 7000	51.2	51.9	52.6	52.9	54.1	54.2	55.3	55.4	55.8	56.1	56.5	56.6	56.8	57.2	57.5	57.8
IV 6000	52.4	53.2	53.8	54.3	55.5	55.6	56.7	56.8	57.3	57.5	58.0	58.1	58.3	58.6	59.0	59.3
IV 5000	55.7	57.4	58.3	58.7	60.0	60.1	61.2	61.3	61.7	62.0	62.4	62.6	63.0	63.3	63.6	64.1
IV 4500	56.2	58.0	58.8	59.3	60.7	60.8	62.0	62.1	62.5	62.7	63.2	63.4	63.7	64.1	64.4	64.8
IV 4000	58.4	60.6	61.7	62.2	63.8	64.1	65.2	65.3	65.7	66.0	66.4	66.6	67.0	67.3	67.6	68.1
IV 3500	59.2	61.5	62.6	63.1	64.8	65.1	66.2	66.3	66.7	67.0	67.4	67.6	68.0	68.3	68.6	69.1
IV 3000	60.2	62.6	64.1	64.6	66.6	66.9	68.1	68.2	68.6	69.0	69.4	69.6	70.0	70.3	70.6	71.1
IV 2500	62.5	65.6	67.3	68.0	70.2	70.4	71.7	72.0	72.4	72.7	73.2	73.4	73.7	74.1	74.4	74.9
IV 2000	63.6	67.1	68.7	69.4	71.6	71.9	73.2	73.4	73.9	74.2	74.6	74.9	75.2	75.5	75.9	76.3
IV 1800	64.0	67.4	69.1	69.7	72.0	72.2	73.6	73.9	74.3	74.6	75.1	75.3	75.6	76.0	76.3	76.8
IV 1500	66.3	70.0	71.7	72.5	74.7	75.0	76.4	76.6	77.1	77.4	77.9	78.1	78.4	78.8	79.1	79.5
IV 1200	67.5	71.6	73.6	74.4	76.9	77.1	78.6	78.9	79.3	79.6	80.1	80.3	80.6	81.0	81.3	81.8
IV 1000	69.1	73.3	75.3	76.2	78.9	79.1	81.0	81.3	81.8	82.1	82.5	82.8	83.1	83.4	83.8	84.2
IV 900	69.4	73.6	75.6	76.6	79.3	79.5	81.5	81.9	82.3	82.6	83.1	83.3	83.6	84.0	84.3	84.8
IV 800	69.5	73.9	75.9	76.9	79.8	80.0	82.0	82.3	82.9	83.2	83.6	83.9	84.2	84.5	84.9	85.3
IV 700	69.6	74.2	76.3	77.3	80.2	80.4	82.6	83.1	83.6	84.0	84.4	84.6	85.0	85.3	85.7	86.1
IV 600	69.9	74.6	77.0	78.2	81.3	81.6	84.1	84.5	85.1	85.4	85.9	86.1	86.4	86.8	87.1	87.5
IV 500	69.9	74.9	77.4	78.9	82.3	82.9	86.1	86.7	87.3	87.7	88.1	88.3	88.7	89.0	89.3	89.8
IV 400	70.2	75.3	77.9	79.3	82.9	83.8	87.3	88.0	88.7	89.0	89.5	89.8	90.1	90.4	90.8	91.2
IV 300	70.2	75.6	78.3	79.9	84.0	85.1	89.0	90.2	91.0	91.5	92.3	92.5	92.9	93.3	93.7	94.1
IV 200	70.2	75.8	78.4	80.1	84.8	86.0	90.1	91.5	92.7	93.4	94.7	95.0	95.8	96.6	97.0	97.6
IV 100	70.2	75.8	78.4	80.1	84.8	86.0	90.1	91.5	92.7	93.5	94.9	95.3	96.1	97.0	98.2	99.9
IV 0	70.2	75.8	78.4	80.1	84.8	86.0	90.1	91.5	92.7	93.5	94.9	95.3	96.1	97.0	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 899

USAF-ETAC

FORM
JUL 64

0-14-5 (CL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB HI

69-78

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥0
NO CEILING ≥20000	37.7	38.3	38.8	39.1	40.2	40.3	41.0	41.3	41.3	41.7	41.9	41.9	42.1	42.2	42.6	43.0
IV ≥8000	39.9	40.6	41.0	41.3	42.4	42.6	43.2	43.6	43.8	44.1	44.3	44.4	44.7	44.8	45.1	45.6
IV ≥6000	39.9	40.7	41.1	41.4	42.6	42.7	43.3	43.7	43.9	44.2	44.4	44.6	44.8	44.9	45.2	45.7
IV ≥4000	41.0	41.8	42.2	42.6	43.7	43.8	44.4	44.8	45.0	45.3	45.6	45.7	45.9	46.0	46.3	46.8
IV ≥2000	41.7	42.4	42.9	43.2	44.3	44.4	45.1	45.4	45.7	46.0	46.2	46.3	46.7	46.8	47.2	47.7
IV ≥1000	44.4	45.4	45.9	46.2	47.4	47.6	48.2	48.6	48.8	49.1	49.3	49.4	49.8	49.9	50.3	50.8
IV ≥800	45.2	46.2	46.7	47.0	48.2	48.3	49.0	49.3	49.6	49.9	50.1	50.2	50.6	50.7	51.1	51.6
IV ≥700	46.9	48.1	48.6	48.9	50.3	50.4	51.1	51.4	51.7	52.0	52.2	52.3	52.7	52.8	53.2	53.7
IV ≥600	48.3	49.8	50.3	50.7	52.1	52.2	52.9	53.3	53.6	53.9	54.1	54.2	54.6	54.7	55.1	55.6
IV ≥500	49.3	51.1	51.7	52.0	53.4	53.6	54.2	54.7	54.9	55.2	55.4	55.6	55.9	56.0	56.4	56.9
IV ≥450	51.7	53.8	54.4	55.1	56.6	56.7	57.3	57.8	58.0	58.4	58.7	58.8	59.1	59.2	59.7	60.1
IV ≥400	52.4	54.7	55.4	56.2	57.9	58.0	58.7	59.1	59.3	59.8	60.0	60.1	60.4	60.6	61.0	61.4
IV ≥350	54.8	57.2	58.2	59.1	60.8	60.9	61.6	62.0	62.2	62.7	62.9	63.0	63.3	63.4	63.9	64.3
IV ≥300	55.4	58.0	59.0	59.9	61.6	61.7	62.3	62.8	63.0	63.4	63.7	63.8	64.1	64.2	64.7	65.1
IV ≥250	57.9	60.6	61.7	62.7	64.3	64.4	65.1	65.6	65.8	66.2	66.4	66.6	66.9	67.0	67.4	67.9
IV ≥200	62.0	65.1	66.4	67.4	69.1	69.2	69.9	70.3	70.6	71.0	71.2	71.3	71.7	71.8	72.2	72.7
IV ≥180	64.2	67.4	68.8	69.8	71.4	71.6	72.2	72.7	73.0	73.4	73.7	73.8	74.1	74.2	74.7	75.1
IV ≥150	65.3	68.6	69.9	70.9	72.6	72.7	73.3	73.8	74.1	74.6	74.8	74.9	75.2	75.3	75.8	76.2
IV ≥100	67.1	70.6	72.1	73.1	74.9	75.0	75.8	76.2	76.6	77.0	77.2	77.3	77.7	77.8	78.2	78.7
IV ≥90	67.8	71.9	73.4	74.6	76.4	76.6	77.4	77.9	78.2	78.7	78.9	79.0	79.3	79.4	79.9	80.3
IV ≥80	69.0	73.1	74.7	76.0	78.3	78.6	79.6	80.0	80.3	80.8	81.0	81.1	81.4	81.6	82.0	82.4
IV ≥70	69.6	73.9	75.4	76.8	79.1	79.3	80.4	80.9	81.2	81.7	81.9	82.0	82.3	82.4	82.9	83.3
IV ≥60	69.6	73.9	75.7	77.1	79.8	80.1	81.3	81.8	82.1	82.6	82.8	82.9	83.2	83.3	83.8	84.2
IV ≥50	69.9	74.3	76.2	77.7	81.0	81.3	82.7	83.1	83.4	83.9	84.1	84.2	84.6	84.7	85.1	85.6
IV ≥40	70.2	75.0	77.3	78.8	83.3	84.1	86.1	87.0	87.4	87.9	88.1	88.2	88.6	88.7	89.1	89.6
IV ≥30	70.3	75.6	78.0	79.4	84.1	85.0	87.2	88.6	89.1	89.8	90.0	90.1	90.4	90.6	91.0	91.4
IV ≥20	70.3	75.7	78.1	79.6	85.0	86.0	88.7	90.4	91.0	91.8	92.3	92.4	93.1	93.3	93.8	94.3
IV ≥10	70.4	75.9	78.6	80.0	85.8	86.8	89.6	91.6	92.2	93.2	94.3	94.4	95.9	96.1	96.7	97.4
IV ≥0	70.4	75.9	78.6	80.0	85.8	86.8	89.7	91.7	92.3	93.3	94.4	94.6	96.2	96.4	97.4	99.9

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835

K I SAWYER AFB MI

09-78

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥0
NO CEILING ≥ 20000	35.2	36.6	36.7	36.9	37.3	37.3	37.4	37.4	37.4	37.6	37.6	37.6	37.6	37.6	37.6	37.7
IV 18000	39.0	40.6	40.7	40.9	41.3	41.3	41.6	41.6	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.8
IV 16000	39.2	40.8	40.9	41.1	41.6	41.6	41.8	41.8	41.8	41.9	41.9	41.9	41.9	41.9	41.9	42.0
IV 14000	39.4	41.0	41.1	41.3	41.5	41.8	42.0	42.0	42.0	42.1	42.1	42.1	42.1	42.1	42.1	42.2
IV 12000	40.8	42.4	42.7	42.9	43.3	43.3	43.6	43.6	43.6	43.7	43.7	43.7	43.7	43.7	43.7	43.8
IV 10000	42.3	44.0	44.2	44.4	44.9	44.9	45.1	45.1	45.1	45.2	45.2	45.2	45.2	45.2	45.2	45.3
IV 9000	45.1	46.9	47.2	47.4	47.9	47.9	48.1	48.1	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.3
IV 8000	45.8	47.7	48.0	48.2	48.7	48.7	48.9	48.9	48.9	49.0	49.0	49.0	49.0	49.0	49.0	49.1
IV 7000	47.3	49.3	49.7	49.9	50.3	50.3	50.6	50.6	50.6	50.7	50.7	50.7	50.7	50.7	50.7	50.8
IV 6000	48.2	50.2	50.6	50.8	51.2	51.2	51.4	51.4	51.4	51.6	51.6	51.6	51.6	51.6	51.6	51.7
IV 5000	49.2	51.2	51.6	51.8	52.2	52.2	52.6	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.8
IV 4500	51.4	53.6	53.9	54.1	54.5	54.8	55.2	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.4
IV 4000	52.1	54.2	54.6	54.8	55.4	55.4	55.9	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.1
IV 3500	54.0	56.3	56.7	56.9	57.6	57.6	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.2
IV 3000	54.8	57.1	57.4	57.7	58.3	58.3	58.8	58.8	58.8	58.9	58.9	58.9	58.9	58.9	58.9	59.0
IV 2500	58.4	60.9	61.2	61.6	62.3	62.3	62.8	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	63.0
IV 2000	62.7	65.3	65.8	66.1	66.9	66.9	67.3	67.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.6
IV 1800	67.3	70.0	70.4	70.8	71.9	71.9	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.6
IV 1500	68.0	70.8	71.3	71.8	72.9	72.9	73.3	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.6
IV 1200	70.3	73.2	74.0	74.4	75.6	75.6	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.2
IV 1000	72.1	75.7	76.7	77.1	78.3	78.4	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.2
IV 900	73.7	77.6	78.6	79.0	80.6	80.7	81.3	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.6
IV 800	74.2	78.6	79.6	80.2	81.8	81.9	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.8
IV 700	74.9	79.4	80.6	81.4	83.0	83.1	83.8	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.2
IV 600	75.3	80.2	81.9	82.8	84.8	84.9	85.7	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.2
IV 500	75.6	81.3	83.3	84.4	86.7	86.8	87.8	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.3
IV 400	76.1	82.2	84.3	85.7	88.2	88.8	90.2	90.7	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.2
IV 300	76.1	82.8	85.2	86.9	89.6	90.1	91.9	92.4	92.7	93.7	93.7	93.7	93.7	93.7	93.7	93.8
IV 200	76.1	82.9	85.4	87.1	90.0	90.7	92.9	94.2	95.2	96.3	96.7	96.7	96.7	96.7	96.7	96.9
IV 100	76.1	82.9	85.6	87.2	90.2	91.1	93.4	94.8	95.8	97.2	97.9	97.9	98.2	98.4	98.4	98.8
IV 0	76.1	82.9	85.6	87.2	90.2	91.1	93.4	94.8	95.8	97.2	97.9	97.9	98.4	98.8	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835 K I SAWYER AFB MI

09-78

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	33.9	34.9	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
≥ 20000	40.7	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
IV 18000	40.9	41.9	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
IV 16000	40.9	41.9	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
IV 14000	41.8	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 12000	42.7	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IV 10000	44.9	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
IV 9000	45.7	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 8000	47.0	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
IV 7000	48.7	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
IV 6000	50.0	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 5000	52.2	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 4500	52.8	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
IV 4000	55.0	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
IV 3500	57.9	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 3000	63.3	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
IV 2500	69.0	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 2000	73.1	75.9	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 1800	73.9	76.7	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 1500	77.2	80.7	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
IV 1200	78.8	82.6	82.9	82.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
IV 1000	79.9	84.0	84.7	84.7	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
IV 900	81.3	85.8	86.7	87.0	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 800	82.0	86.8	87.9	88.2	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV 700	82.4	87.6	88.8	89.3	90.7	90.7	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
IV 600	82.6	88.4	89.8	90.7	92.6	92.6	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
IV 500	82.6	88.4	90.0	91.1	93.4	93.7	93.9	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 400	82.8	88.8	90.4	91.8	94.3	94.7	95.2	95.7	96.1	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 300	82.8	88.8	90.4	91.9	94.6	95.0	96.1	96.9	97.4	98.1	98.4	98.4	98.4	98.6	98.6	98.6
IV 200	82.8	88.8	90.4	91.9	94.6	95.3	96.4	97.3	98.0	98.9	99.2	99.2	99.6	99.7	99.8	99.8
IV 100	82.8	88.8	90.4	91.9	94.6	95.3	96.4	97.3	98.0	98.9	99.3	99.3	99.7	99.8	99.9	100.0
IV 0	82.8	88.8	90.4	91.9	94.6	95.3	96.4	97.3	98.0	98.9	99.3	99.3	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

69-76

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ 0
NO CEILING	39.6	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
≥ 20000	46.1	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
≥ 18000	46.6	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 16000	46.7	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 14000	47.9	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥ 12000	49.3	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 10000	51.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 9000	52.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥ 8000	53.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 7000	54.9	56.0	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 6000	56.4	57.5	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 5000	58.5	59.7	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 4500	60.3	61.5	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 4000	63.2	64.6	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 3500	66.4	67.9	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 3000	71.6	73.6	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 2500	75.0	77.3	77.8	77.9	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 2000	77.5	81.0	81.4	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 1800	78.2	81.6	82.1	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 1500	80.0	83.8	84.4	84.5	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 1200	81.3	85.5	86.2	86.5	86.5	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 1000	82.8	87.5	88.2	88.7	88.8	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 900	83.5	88.3	89.0	89.5	89.7	89.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 800	84.3	89.5	90.2	90.8	90.9	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 700	84.9	90.7	91.3	92.2	92.5	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 600	84.9	90.9	91.8	92.8	93.4	93.7	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 500	85.2	91.4	92.7	93.8	94.9	95.1	95.9	96.4	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7
≥ 400	85.5	91.8	93.1	94.2	95.6	95.8	96.8	97.7	97.9	98.4	98.6	98.6	98.6	98.6	98.6	98.6
≥ 300	85.5	91.8	93.1	94.2	95.7	95.9	97.0	97.9	98.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200	85.5	91.8	93.1	94.2	95.7	95.9	97.0	97.9	98.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	85.5	91.8	93.1	94.2	95.7	95.9	97.0	97.9	98.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	85.5	91.8	93.1	94.2	95.7	95.9	97.0	97.9	98.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94826

K I SAWYER AFB MI

69-78

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	43.6	44.3	44.7	44.7	44.9	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.2	45.2	45.2
≥ 20000	49.6	50.7	51.2	51.3	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.7	51.7	51.7
≥ 18000	49.6	50.7	51.2	51.3	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.7	51.7	51.7
≥ 16000	49.6	50.7	51.2	51.3	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.7	51.7	51.7
≥ 14000	50.4	51.5	52.1	52.2	52.4	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.6	52.6	52.6
≥ 12000	51.5	52.6	53.2	53.3	53.5	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.7	53.7	53.7
≥ 10000	53.9	55.3	55.8	56.0	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.4	56.4	56.4
≥ 9000	54.6	56.0	56.5	56.6	56.8	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.1	57.1	57.1
≥ 8000	56.4	58.0	58.5	58.6	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.2	59.2
≥ 7000	57.5	59.3	59.8	60.0	60.3	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.6	60.6	60.6
≥ 6000	59.0	60.7	61.4	61.8	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.5	62.5	62.5
≥ 5000	61.8	63.8	64.6	65.2	65.5	65.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.0	66.0
≥ 4500	63.7	65.7	66.5	67.1	67.4	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.9	67.9	67.9
≥ 4000	66.3	68.6	69.4	70.3	70.6	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1	71.1
≥ 3500	67.6	70.0	70.7	71.7	72.1	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.5	72.5	72.5
≥ 3000	70.5	72.9	74.0	75.1	75.6	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.1	76.1
≥ 2500	72.7	75.2	76.5	77.6	78.2	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.8	78.8	78.8
≥ 2000	75.4	78.1	79.4	80.5	81.3	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9
≥ 1800	76.3	79.0	80.3	81.4	82.2	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.8	82.8	82.8
≥ 1600	77.5	80.4	81.8	83.0	83.8	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.3
≥ 1400	79.4	82.5	83.9	85.3	86.2	86.5	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.9	86.9	86.9
≥ 1200	80.8	83.9	85.2	86.9	87.9	88.4	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.8
≥ 1000	80.8	84.0	85.3	87.0	88.0	88.5	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9
≥ 900	81.1	84.4	85.9	87.3	88.5	89.4	89.5	89.7	89.7	89.8	89.8	89.8	89.8	89.9	89.9	89.9
≥ 800	81.8	85.3	87.1	89.3	90.8	91.3	91.4	91.5	91.5	91.7	91.7	91.7	91.7	91.8	91.8	91.8
≥ 700	81.8	85.5	87.5	89.9	91.4	92.0	92.4	92.5	92.7	92.8	92.8	92.8	92.8	92.9	92.9	92.9
≥ 600	81.9	85.8	88.6	90.7	93.2	93.8	94.3	94.4	94.5	94.7	94.7	94.7	94.7	94.8	94.8	94.8
≥ 500	82.0	85.9	88.2	91.2	94.0	94.8	96.0	96.8	96.9	97.3	97.3	97.3	97.3	97.4	97.4	97.4
≥ 400	82.0	85.9	88.2	91.3	94.2	95.0	96.2	97.2	97.3	98.2	98.3	98.3	98.3	98.7	98.7	98.7
≥ 300	82.0	85.9	88.2	91.3	94.2	95.0	96.2	97.2	97.3	98.2	98.3	98.3	98.3	98.7	98.7	98.7
≥ 200	82.0	85.9	88.2	91.3	94.2	95.0	96.2	97.2	97.3	98.2	98.3	98.3	98.3	98.7	98.7	98.7
≥ 100	82.0	85.9	88.2	91.3	94.2	95.0	96.2	97.2	97.3	98.2	98.3	98.3	98.3	98.7	98.7	98.7
≥ 0	82.0	85.9	88.2	91.3	94.2	95.0	96.2	97.2	97.3	98.2	98.3	98.3	98.3	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-78

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	45.3	47.0	47.8	47.9	48.9	49.0	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.6
≥ 20000	48.2	50.0	50.8	51.0	52.0	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.9
IV 18000	48.3	50.1	50.9	51.1	52.1	52.4	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	53.0
IV 16000	48.6	50.3	51.1	51.3	52.3	52.7	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.2
IV 14000	49.8	51.6	52.3	52.6	53.6	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.4
IV 12000	50.2	52.0	52.8	53.0	54.0	54.3	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.9
IV 10000	52.9	54.7	55.8	56.0	57.0	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.9
IV 9000	53.7	55.4	56.6	56.8	57.8	58.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.7
IV 8000	54.3	56.1	57.3	57.6	58.6	58.9	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.4
IV 7000	55.7	57.4	58.8	59.0	60.0	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.9
IV 6000	57.8	59.7	61.0	61.2	62.3	62.7	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.2
IV 5000	60.8	62.8	64.2	64.4	65.6	66.0	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.8
IV 4500	62.3	64.4	65.9	66.2	67.3	67.8	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.6
IV 4000	65.6	68.0	70.1	70.4	71.6	72.0	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.8
IV 3500	66.8	69.6	71.7	72.0	73.1	73.6	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.3
IV 3000	69.2	72.3	74.7	75.0	76.2	76.7	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.7
IV 2500	71.0	74.6	77.0	77.4	78.8	79.2	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.2
IV 2000	72.6	76.1	78.7	79.1	80.4	80.9	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.9
IV 1800	72.9	76.6	79.1	79.6	80.9	81.4	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.4
IV 1500	74.1	78.0	80.9	81.3	82.8	83.4	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.4
IV 1200	75.2	79.2	82.2	83.0	84.7	85.7	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.7
IV 1000	75.8	79.9	82.9	83.9	86.3	87.3	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.3
IV 900	76.2	80.4	83.4	84.4	87.1	88.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.2
IV 800	76.2	80.8	83.8	84.9	87.6	88.6	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.7
IV 700	76.3	80.9	83.9	85.1	88.1	89.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.2
IV 600	76.6	81.2	84.4	85.8	89.2	90.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.6
IV 500	76.9	81.6	84.8	86.2	91.1	92.1	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.8
IV 400	77.0	81.9	85.2	86.7	92.0	93.0	94.9	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.3
IV 300	77.1	82.0	85.3	86.8	92.6	93.6	95.8	96.1	96.4	96.6	97.0	97.0	97.1	97.1	97.1	97.3
IV 200	77.1	82.0	85.3	86.8	92.6	93.6	95.8	96.1	96.7	96.9	98.0	98.0	98.7	98.7	98.7	98.9
IV 100	77.1	82.0	85.3	86.8	92.6	93.6	95.8	96.1	96.7	96.9	98.1	98.1	98.9	99.0	99.3	99.7
IV 0	77.1	82.0	85.3	86.8	92.6	93.6	95.8	96.1	96.7	96.9	98.1	98.1	98.9	99.1	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

9-78

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	40.4	41.4	41.7	41.9	42.4	42.4	42.7	42.8	42.9	43.0	43.1	43.1	43.1	43.2	43.3	43.5
≥20000	44.7	45.8	46.2	46.3	46.9	47.0	47.3	47.4	47.5	47.6	47.7	47.7	47.8	47.9	48.0	48.2
≥18000	44.9	46.0	46.4	46.5	47.1	47.1	47.5	47.6	47.7	47.8	47.9	47.9	48.0	48.1	48.2	48.4
≥16000	45.0	46.2	46.5	46.7	47.2	47.3	47.7	47.8	47.9	48.0	48.1	48.1	48.2	48.3	48.4	48.5
≥14000	46.0	47.3	47.6	47.8	48.3	48.4	48.8	48.9	49.0	49.1	49.2	49.2	49.3	49.4	49.5	49.6
≥12000	46.9	48.1	48.5	48.7	49.2	49.3	49.7	49.8	49.9	50.0	50.1	50.1	50.2	50.3	50.4	50.6
≥10000	49.3	50.6	51.0	51.2	51.7	51.8	52.2	52.3	52.4	52.5	52.6	52.6	52.7	52.8	52.9	53.1
≥9000	50.0	51.4	51.8	52.0	52.5	52.6	53.0	53.0	53.1	53.3	53.4	53.4	53.5	53.6	53.7	53.9
≥8000	51.3	52.8	53.3	53.4	54.1	54.1	54.6	54.6	54.7	54.8	54.9	55.0	55.1	55.1	55.3	55.4
≥7000	52.5	54.1	54.6	54.8	55.4	55.5	55.9	56.0	56.1	56.2	56.3	56.3	56.4	56.5	56.6	56.8
≥6000	53.8	55.5	56.0	56.2	56.9	57.0	57.4	57.5	57.6	57.7	57.8	57.9	58.0	58.0	58.1	58.3
≥5000	56.5	58.5	59.1	59.4	60.1	60.2	60.7	60.8	60.9	61.0	61.1	61.2	61.3	61.4	61.5	61.7
≥4500	57.6	59.6	60.3	60.6	61.4	61.5	62.0	62.1	62.2	62.3	62.4	62.4	62.6	62.7	62.8	63.0
≥4000	60.1	62.5	63.3	63.7	64.6	64.7	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.2
≥3500	61.6	64.1	64.9	65.3	66.2	66.3	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.8
≥3000	64.6	67.3	68.3	68.8	69.8	69.9	70.4	70.5	70.7	70.8	70.9	70.9	71.0	71.1	71.3	71.5
≥2500	67.7	70.8	71.9	72.4	73.5	73.6	74.2	74.3	74.4	74.5	74.5	74.7	74.8	74.9	75.0	75.2
≥2000	70.3	73.6	74.7	75.3	76.4	76.5	77.1	77.3	77.4	77.5	77.6	77.7	77.8	77.9	78.0	78.2
≥1800	70.9	74.2	75.4	76.0	77.1	77.3	77.9	78.0	78.1	78.3	78.4	78.4	78.5	78.6	78.7	78.9
≥1500	72.8	76.4	77.8	78.4	79.6	79.7	80.4	80.5	80.6	80.8	80.9	80.9	81.0	81.1	81.2	81.4
≥1200	74.1	78.1	79.5	80.3	81.6	81.8	82.5	82.6	82.8	82.9	83.0	83.0	83.1	83.2	83.4	83.6
≥1000	75.3	79.5	80.9	81.8	83.4	83.7	84.4	84.6	84.7	84.9	85.0	85.0	85.1	85.2	85.3	85.5
≥900	75.7	80.1	81.5	82.5	84.2	84.5	85.3	85.5	85.6	85.7	85.8	85.9	86.0	86.1	86.2	86.4
≥800	76.2	80.7	82.3	83.4	85.1	85.5	86.3	86.4	86.6	86.7	86.8	86.9	87.0	87.1	87.2	87.4
≥700	76.4	81.3	83.0	84.2	86.3	86.6	87.5	87.7	87.9	88.0	88.1	88.1	88.3	88.4	88.5	88.7
≥600	76.6	81.8	83.7	85.1	87.6	88.0	89.0	89.2	89.4	89.5	89.6	89.7	89.8	89.9	90.0	90.2
≥500	76.8	82.2	84.3	85.9	89.0	89.6	91.1	91.4	91.7	91.9	92.0	92.0	92.1	92.2	92.4	92.6
≥400	77.3	82.6	84.9	86.5	89.9	90.6	92.4	93.1	93.4	93.9	94.0	94.1	94.2	94.3	94.4	94.6
≥300	77.1	82.7	85.0	86.7	90.4	91.2	93.4	94.4	95.0	95.7	96.1	96.2	96.3	96.5	96.6	96.8
≥200	77.1	82.7	85.1	86.8	90.7	91.5	93.7	94.9	95.6	96.5	97.3	97.4	98.0	98.3	98.5	98.8
≥100	77.1	82.7	85.1	86.8	90.7	91.5	93.8	94.9	95.6	96.5	97.4	97.5	98.3	98.6	99.1	99.9
≥0	77.1	82.7	85.1	86.8	90.7	91.5	93.8	94.9	95.6	96.5	97.4	97.5	98.3	98.6	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 7197

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836
STATION

K I SAWYER AFB MI
STATION NAME

19-70
YEAR

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ 0
NO CEILING	38.9	37.6	39.9	40.3	41.2	41.2	41.3	41.3	41.4	41.4	41.6	41.6	41.9	42.0	42.3	42.6
≥ 20000	42.8	43.4	44.0	44.4	45.3	45.3	45.4	45.4	45.5	45.5	45.7	45.7	46.0	46.1	46.5	46.8
≥ 18000	43.1	43.8	44.4	44.8	45.7	45.7	45.8	45.8	45.9	45.9	46.1	46.1	46.5	46.6	46.9	47.2
≥ 16000	43.2	43.9	44.5	44.9	45.8	45.8	45.9	45.9	46.0	46.0	46.2	46.2	46.6	46.7	47.0	47.3
≥ 14000	43.8	44.7	45.4	45.8	46.7	46.7	46.8	46.8	46.9	46.9	47.1	47.1	47.4	47.5	47.8	48.2
≥ 12000	44.6	45.8	46.5	46.9	48.0	48.1	48.2	48.2	48.3	48.3	48.5	48.5	48.8	48.9	49.2	49.6
≥ 10000	46.9	48.4	49.0	49.5	50.9	51.0	51.1	51.1	51.2	51.3	51.5	51.5	51.8	51.9	52.3	52.6
≥ 9000	47.7	49.5	50.1	50.5	51.9	52.0	52.2	52.2	52.3	52.4	52.6	52.6	52.9	53.0	53.3	53.7
≥ 8000	48.7	50.8	51.4	51.8	53.2	53.3	53.4	53.4	53.5	53.7	53.9	53.9	54.2	54.3	54.6	54.9
≥ 7000	49.1	51.7	52.4	52.8	54.2	54.3	54.4	54.4	54.5	54.6	54.8	54.8	55.2	55.3	55.6	55.9
≥ 6000	51.4	53.5	54.2	54.6	56.0	56.1	56.2	56.2	56.3	56.5	56.7	56.7	57.0	57.1	57.4	57.7
≥ 5000	54.6	57.2	57.8	58.3	59.9	60.1	60.3	60.3	60.4	60.5	60.8	60.8	61.1	61.2	61.5	61.8
≥ 4500	56.5	59.0	59.7	60.1	61.7	61.9	62.2	62.2	62.3	62.4	62.6	62.6	62.9	63.0	63.3	63.7
≥ 4000	59.9	62.9	63.9	64.5	66.3	66.6	66.9	66.9	67.0	67.1	67.3	67.3	67.6	67.7	68.1	68.4
≥ 3500	61.5	64.6	65.6	66.2	68.1	68.3	68.6	68.7	68.8	68.9	69.1	69.1	69.5	69.6	69.9	70.2
≥ 3000	65.4	69.0	70.1	70.8	72.3	73.0	73.3	73.4	73.5	73.8	74.0	74.0	74.3	74.4	74.7	75.1
≥ 2500	66.9	70.8	71.8	72.6	74.6	74.8	75.2	75.3	75.4	75.6	75.8	75.8	76.1	76.2	76.6	76.9
≥ 2000	68.6	73.1	74.4	75.2	77.3	77.5	78.0	78.1	78.2	78.4	78.6	78.6	78.9	79.0	79.4	79.7
≥ 1800	68.8	73.4	74.7	75.5	77.8	78.3	78.7	78.8	78.9	79.1	79.4	79.4	79.7	79.8	80.1	80.4
≥ 1500	69.5	74.5	75.9	76.7	79.4	80.0	80.5	81.1	81.2	81.4	81.6	81.6	81.9	82.0	82.4	82.7
≥ 1200	70.1	75.5	77.1	78.0	80.6	81.3	81.8	82.4	82.5	82.7	82.9	82.9	83.2	83.3	83.7	84.0
≥ 1000	70.3	75.8	77.7	78.6	81.4	82.0	82.6	83.1	83.3	83.5	83.8	83.8	84.1	84.2	84.5	84.8
≥ 900	70.5	76.0	78.0	78.8	81.6	82.3	82.8	83.3	83.5	83.9	84.1	84.1	84.4	84.5	84.8	85.2
≥ 800	70.9	76.5	78.0	79.5	82.6	83.2	83.9	84.4	84.6	84.9	85.2	85.2	85.5	85.6	85.9	86.2
≥ 700	71.1	76.7	79.0	79.9	83.1	83.8	84.6	85.2	85.4	85.9	86.2	86.3	86.8	87.0	87.3	87.6
≥ 600	71.3	77.1	79.7	80.5	84.3	84.9	85.9	86.5	86.7	87.2	87.5	87.7	88.2	88.4	88.7	89.0
≥ 500	71.5	77.4	80.0	81.4	85.8	86.9	88.1	88.8	89.1	89.7	90.0	90.2	90.6	90.9	91.2	91.5
≥ 400	71.5	77.4	80.0	81.5	86.8	87.8	89.1	90.4	90.9	91.5	91.8	92.0	92.5	92.7	93.0	93.3
≥ 300	71.5	77.4	80.0	81.5	86.8	87.8	89.6	91.0	91.5	92.4	92.7	92.9	93.7	93.9	94.4	94.7
≥ 200	71.5	77.5	80.1	81.6	87.0	88.1	90.0	92.0	92.9	94.0	94.3	94.7	95.8	96.0	96.8	97.2
≥ 100	71.5	77.5	80.1	81.6	87.0	88.1	90.0	92.0	92.9	94.0	94.4	94.8	95.9	96.3	97.8	99.9
≥ 0	71.5	77.5	80.1	81.6	87.0	88.1	90.0	92.0	92.9	94.0	94.4	94.8	95.9	96.3	97.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836
STATION

K I SAWYER AFB MI
STATION NAME

69-78
YEAR

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS

CEILING FEET	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.9	≥.8	≥.7	≥.6	≥.5	≥.4	≥.3
NO CEILING	35.8	36.7	37.2	38.0	39.0	39.1	39.2	39.2	39.3	39.4	39.7	39.7	39.7	40.3	40.3	40.7	41.2
≥ 20000	39.5	40.4	41.0	41.8	42.7	42.8	42.9	42.9	43.1	43.2	43.5	43.5	44.0	44.0	44.0	44.5	45.0
≥ 18000	39.9	40.8	41.4	42.2	43.2	43.3	43.4	43.4	43.5	43.6	43.9	43.9	44.5	44.5	44.5	44.9	45.4
≥ 16000	39.9	40.8	41.4	42.2	43.2	43.3	43.4	43.4	43.5	43.6	43.9	43.9	44.5	44.5	44.5	44.9	45.4
≥ 14000	40.5	41.3	42.0	42.7	43.7	43.8	43.9	43.9	44.0	44.1	44.5	44.5	45.0	45.0	45.0	45.4	46.0
≥ 12000	41.9	42.8	43.5	44.2	45.2	45.4	45.5	45.5	45.6	45.7	46.1	46.1	46.6	46.6	47.0	47.7	
≥ 10000	44.0	45.3	46.0	46.7	47.9	48.0	48.1	48.2	48.3	48.4	48.8	48.8	49.5	49.5	49.9	50.6	
≥ 9000	44.0	45.7	46.4	47.1	48.3	48.4	48.5	48.7	48.8	48.9	49.2	49.2	49.9	49.9	50.4	51.0	
≥ 8000	44.6	46.5	47.1	48.0	49.2	49.3	49.4	49.5	49.6	49.7	50.1	50.1	50.8	50.8	51.2	51.9	
≥ 7000	45.4	47.5	48.3	49.2	50.4	50.5	50.6	50.7	50.9	51.0	51.3	51.3	52.1	52.1	52.5	53.2	
≥ 6000	47.8	49.8	50.8	51.7	52.9	53.0	53.1	53.2	53.4	53.5	53.8	53.8	54.6	54.6	55.0	55.7	
≥ 5000	51.1	53.4	54.5	55.3	56.8	57.1	57.2	57.4	57.6	57.8	58.1	58.1	58.9	58.9	59.3	60.0	
≥ 4500	52.7	55.2	56.3	57.2	58.7	58.9	59.0	59.2	59.4	59.6	60.0	60.0	60.7	60.7	61.1	61.8	
≥ 4000	56.4	60.0	61.1	62.2	63.9	64.3	64.4	64.6	64.8	65.0	65.3	65.3	66.2	66.2	66.6	67.3	
≥ 3500	58.3	62.0	63.2	64.3	66.0	66.3	66.4	66.6	66.8	67.1	67.4	67.4	68.2	68.2	68.7	69.3	
≥ 3000	61.2	65.0	66.3	67.4	69.3	69.6	69.8	70.1	70.3	70.5	70.8	70.8	71.7	71.7	72.1	72.8	
≥ 2500	63.2	67.0	68.4	69.4	71.4	71.7	71.8	72.1	72.5	72.6	72.9	72.9	73.7	73.7	74.2	74.8	
≥ 2000	65.0	68.9	70.5	71.6	73.6	74.1	74.3	74.6	74.8	75.0	75.3	75.3	76.2	76.2	76.6	77.3	
≥ 1800	65.4	69.3	70.9	72.0	74.1	74.5	74.7	75.0	75.2	75.5	75.8	75.8	76.6	76.6	77.1	77.7	
≥ 1500	66.4	71.0	73.0	74.1	76.3	76.9	77.2	77.5	78.0	78.3	78.6	78.6	79.4	79.4	79.9	80.5	
≥ 1200	67.3	72.1	74.5	75.7	78.1	78.7	79.1	79.4	80.0	80.2	80.6	80.6	81.5	81.5	81.9	82.6	
≥ 1000	68.0	73.0	75.5	76.6	79.2	79.8	80.3	80.6	81.3	81.7	82.2	82.2	83.1	83.1	83.5	84.2	
≥ 900	68.6	73.5	76.1	77.3	79.9	80.5	81.1	81.4	82.0	82.5	83.0	83.0	83.9	83.9	84.3	84.9	
≥ 800	68.9	74.1	77.1	78.3	80.9	81.6	82.1	82.5	83.1	83.5	84.1	84.1	84.9	84.9	85.4	86.0	
≥ 700	69.1	74.3	77.4	78.6	81.4	82.0	82.7	83.0	83.6	84.4	84.9	84.9	85.8	85.8	86.2	86.9	
≥ 600	69.5	74.7	77.9	79.1	82.0	82.9	83.7	84.2	84.6	85.6	86.1	86.1	87.1	87.1	87.5	88.2	
≥ 500	69.6	74.9	78.3	79.9	83.2	84.2	85.0	85.6	86.2	87.0	87.5	87.5	88.5	88.5	88.9	89.6	
≥ 400	69.6	74.9	78.3	80.0	84.0	85.4	86.5	87.8	88.6	89.3	90.1	90.1	91.1	91.1	91.5	92.1	
≥ 300	69.6	74.9	78.4	80.1	84.3	85.9	87.6	89.6	90.7	91.6	92.5	92.6	93.8	93.8	94.3	94.9	
≥ 200	69.6	74.9	78.4	80.2	84.4	86.1	88.1	90.4	91.6	92.5	93.5	93.6	95.0	95.2	96.0	96.9	
≥ 100	69.6	74.9	78.4	80.2	84.4	86.2	88.2	90.5	91.7	92.6	93.8	94.0	95.5	95.6	97.1	99.8	
≥ 0	69.6	74.9	78.4	80.2	84.4	86.2	88.2	90.5	91.7	92.6	93.8	94.0	95.5	95.6	97.1	100.0	

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836
STATION

K I SAWYER AFB MI
STATION NAME

19-78
YEAR

UCL
UNIT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
TIME PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥	≥	≥	≥	≥	≥	≥0
NO CEILING ≥ 20000	27.7 31.0	28.9 37.3	29.8 33.2	30.3 33.9	31.5 35.2	31.5 35.2	31.5 35.2	31.8 35.5	32.2 35.8	32.5 36.1	32.7 36.3	32.7 36.3	33.0 36.7	33.3 37.0	33.3 37.0	33.8 37.4
IV 18000 IV 15000	31.1 31.3	32.4 32.6	33.3 33.5	34.0 34.2	35.3 35.6	35.3 35.6	35.3 35.6	35.6 35.9	35.6 36.2	35.6 36.6	35.6 36.8	35.6 36.8	36.2 36.8	36.5 36.8	37.1 37.5	37.5 38.0
IV 14000 IV 12000	31.8 33.1	33.1 34.5	34.1 35.5	34.7 36.1	36.1 37.5	36.1 37.5	36.1 37.5	36.5 37.8	36.8 38.2	37.1 38.5	37.3 38.8	37.3 38.8	37.7 39.2	38.1 39.6	38.1 39.6	38.6 40.2
IV 10000 IV 9000	36.1 36.3	37.7 38.2	38.7 39.1	39.5 39.9	40.9 41.4	40.9 41.4	40.9 41.4	41.3 41.8	41.6 42.2	41.9 42.5	42.3 42.8	42.3 42.8	42.7 43.2	43.0 43.5	43.0 43.5	43.7 44.2
IV 8000 IV 7000	37.8 38.6	39.7 40.5	40.6 41.5	41.4 42.4	42.9 44.0	42.9 44.0	42.9 44.0	43.3 44.4	43.7 44.7	44.0 45.1	44.5 45.7	44.5 45.7	44.9 46.1	45.3 46.5	45.3 46.5	45.9 47.1
IV 6000 IV 5000	40.6 45.1	42.8 47.4	43.9 48.7	44.7 49.6	46.3 51.4	46.3 51.5	46.3 51.8	46.8 52.3	47.1 52.6	47.4 52.9	48.1 53.5	48.1 53.5	48.6 54.1	48.9 54.4	48.9 54.4	49.6 55.1
IV 4500 IV 4000	46.6 50.0	48.9 52.9	50.2 54.3	51.2 55.3	53.2 57.5	53.3 57.6	53.7 58.0	54.1 58.4	54.4 58.8	54.7 59.1	55.4 59.8	55.4 59.8	55.9 60.3	56.2 60.6	56.2 60.6	56.9 61.3
IV 3500 IV 3000	51.2 55.3	54.3 58.9	55.7 60.8	56.7 62.0	59.0 64.6	59.1 64.7	59.5 65.1	60.0 65.6	60.4 66.0	60.8 66.3	61.4 67.0	61.4 67.0	61.9 67.6	62.3 68.0	62.3 68.0	62.9 68.6
IV 2500 IV 2000	57.7 59.1	61.6 63.1	63.5 65.1	64.8 66.5	67.5 69.1	67.5 69.2	68.1 69.8	68.6 70.3	69.0 70.8	69.4 71.1	70.1 71.8	70.1 71.8	70.8 72.5	71.1 72.8	71.1 72.9	71.7 73.5
IV 1800 IV 1500	59.6 61.2	63.7 66.0	65.6 68.2	67.0 69.7	69.8 72.8	69.9 73.0	70.4 73.7	71.0 74.2	71.4 74.6	71.7 74.9	72.5 75.7	72.5 75.7	73.1 76.3	73.4 76.7	73.5 76.8	74.2 77.4
IV 1200 IV 1000	62.6 63.4	68.0 68.9	70.1 71.1	71.8 72.9	75.2 76.2	75.5 76.6	76.1 77.2	76.7 77.7	77.1 78.2	77.4 78.5	78.2 79.2	78.2 79.2	78.8 80.0	79.1 80.3	79.2 80.4	79.9 81.1
IV 900 IV 800	64.0 64.7	69.6 70.3	71.7 72.7	73.5 74.5	76.9 78.1	77.3 78.5	78.0 79.1	78.5 79.7	78.9 80.1	79.4 80.5	80.1 81.3	80.1 81.3	80.9 82.0	81.2 82.4	81.3 82.5	81.9 83.1
IV 700 IV 600	65.3 65.5	71.2 71.7	73.5 74.2	75.5 76.3	79.5 80.5	79.9 81.1	80.6 81.8	81.2 82.4	81.6 82.8	82.0 83.2	82.9 84.1	82.9 84.1	83.7 84.9	84.0 85.3	84.1 85.4	84.7 86.0
IV 500 IV 400	65.5 65.5	71.8 71.9	74.9 75.1	77.5 77.8	82.3 82.7	83.2 83.8	84.2 85.3	85.1 86.3	85.6 86.9	86.1 87.4	87.0 88.3	87.0 88.3	88.1 89.6	88.4 89.9	88.5 90.0	89.2 90.8
IV 300 IV 200	65.6 65.6	72.2 72.2	75.3 75.3	78.2 78.3	83.4 83.7	84.5 84.8	86.3 87.1	87.7 88.7	88.6 89.9	89.2 90.9	90.4 92.9	90.4 93.0	91.9 94.9	92.3 95.4	92.5 95.9	93.7 97.4
IV 100 IV 0	65.6 65.6	72.2 72.2	75.3 75.3	78.3 78.3	83.7 83.7	84.8 84.8	87.1 87.1	88.7 88.7	89.9 89.9	90.9 90.9	93.1 93.1	93.2 93.2	95.2 95.2	95.7 95.7	96.8 96.8	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

69-78

UCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	25.4	27.1	27.7	28.0	28.2	28.2	28.3	28.4	28.4	28.4	28.4	28.5	28.5	28.6	28.6	28.6
≥ 20000	27.8	29.8	30.4	30.6	30.9	30.9	31.0	31.1	31.1	31.1	31.1	31.2	31.2	31.3	31.3	31.5
≥ 18000	28.6	30.5	31.2	31.4	31.6	31.6	31.7	31.8	31.8	31.8	31.8	31.9	31.9	32.0	32.0	32.3
≥ 16000	29.0	31.0	31.6	31.8	32.0	32.0	32.2	32.3	32.3	32.3	32.3	32.4	32.4	32.5	32.5	32.7
≥ 14000	30.0	32.0	32.8	33.0	33.2	33.2	33.3	33.4	33.4	33.4	33.4	33.5	33.5	33.7	33.7	33.9
≥ 12000	30.9	32.9	33.7	33.9	34.1	34.1	34.2	34.3	34.3	34.3	34.3	34.4	34.4	34.5	34.5	34.7
≥ 10000	34.3	36.5	37.3	37.6	37.8	38.0	38.1	38.2	38.2	38.2	38.2	38.3	38.3	38.4	38.4	38.6
≥ 9000	35.3	37.4	38.3	38.6	38.8	38.9	39.0	39.1	39.1	39.1	39.1	39.2	39.2	39.4	39.4	39.6
≥ 8000	37.1	39.2	40.1	40.4	40.6	40.8	40.9	41.0	41.0	41.0	41.0	41.1	41.1	41.2	41.2	41.4
≥ 7000	39.0	41.3	42.3	42.6	42.8	43.0	43.2	43.3	43.4	43.4	43.4	43.5	43.5	43.7	43.7	43.9
≥ 6000	40.3	42.8	43.9	44.4	44.7	44.9	45.3	45.4	45.6	45.6	45.6	45.7	45.7	45.8	45.8	46.0
≥ 5000	42.5	45.3	46.3	47.0	47.4	47.7	48.2	48.3	48.5	48.5	48.6	48.6	48.6	48.7	48.7	48.9
≥ 4500	43.5	46.3	47.6	48.4	48.8	49.1	49.7	49.9	50.1	50.1	50.2	50.2	50.3	50.3	50.5	50.6
≥ 4000	46.3	49.5	51.0	51.7	52.3	52.7	53.2	53.5	53.8	53.8	53.9	53.9	54.0	54.0	54.2	54.3
≥ 3500	48.3	51.5	53.0	53.9	54.5	54.9	55.5	55.8	56.0	56.0	56.1	56.1	56.2	56.2	56.3	56.6
≥ 3000	54.0	57.8	59.4	60.3	61.0	61.4	62.0	62.6	62.8	62.8	62.9	62.9	63.0	63.0	63.2	63.3
≥ 2500	57.2	61.2	62.9	63.9	64.5	65.1	65.7	66.2	66.6	66.6	66.7	66.7	66.8	66.8	67.0	67.1
≥ 2000	61.3	65.7	67.4	68.5	69.2	69.8	70.5	71.2	71.6	71.6	71.7	71.7	71.8	71.8	72.0	72.2
≥ 1800	62.2	66.8	68.5	69.6	70.3	70.9	71.6	72.3	72.7	72.7	72.8	72.8	72.9	72.9	73.1	73.2
≥ 1500	64.0	69.1	71.3	72.6	73.4	74.1	74.8	75.6	76.0	76.0	76.2	76.2	76.3	76.3	76.6	76.7
≥ 1200	65.2	70.8	73.0	74.3	75.2	75.8	76.8	77.5	78.1	78.1	78.3	78.3	78.4	78.4	78.6	78.7
≥ 1000	66.2	71.9	74.3	75.7	76.6	77.2	78.5	79.2	79.8	79.8	80.1	80.1	80.2	80.2	80.4	80.5
≥ 900	66.8	73.0	75.4	76.8	77.7	78.4	79.7	80.4	81.0	81.1	81.5	81.5	81.6	81.6	81.8	81.9
≥ 800	67.3	74.2	76.7	78.1	79.2	80.0	81.5	82.5	83.0	83.1	83.5	83.5	83.7	83.7	83.9	84.0
≥ 700	67.6	75.1	77.7	79.2	80.8	81.5	83.2	84.4	84.9	85.1	85.5	85.5	85.6	85.6	85.8	85.9
≥ 600	68.3	76.6	79.5	81.0	82.6	83.4	85.2	86.3	87.0	87.1	87.5	87.5	87.6	87.6	87.8	88.0
≥ 500	68.5	77.0	79.9	81.5	83.4	84.4	86.5	87.8	88.6	89.0	89.6	89.6	89.7	89.7	89.9	90.0
≥ 400	68.5	77.2	80.3	82.4	84.7	86.0	88.8	90.4	91.2	91.9	92.6	92.6	92.8	92.8	93.0	93.1
≥ 300	68.5	77.3	80.4	82.6	85.5	86.9	90.1	91.8	92.8	93.7	94.5	94.6	94.9	95.1	95.3	95.5
≥ 200	68.5	77.3	80.4	82.6	85.6	87.0	90.2	92.2	93.1	94.0	95.8	95.9	96.6	97.4	98.0	98.6
≥ 100	68.5	77.3	80.4	82.6	85.6	87.0	90.2	92.2	93.1	94.0	95.8	95.9	96.7	97.5	98.1	99.8
≥ 0	68.5	77.3	80.4	82.6	85.6	87.0	90.2	92.2	93.1	94.0	95.8	95.9	96.7	97.5	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-78

UCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	29.2	29.8	29.8	30.0	30.0	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
≥ 20000	34.3	34.9	34.9	35.3	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
≥ 18000	34.9	35.6	35.6	35.9	35.9	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 16000	35.3	35.9	35.9	36.2	36.2	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
≥ 14000	36.2	36.9	36.9	37.2	37.2	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
≥ 12000	37.5	38.2	38.2	38.5	38.5	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 10000	40.0	40.8	40.8	41.1	41.1	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 9000	40.6	41.4	41.4	41.7	41.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 8000	41.3	42.2	42.2	42.5	42.5	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 7000	42.6	43.5	43.5	43.9	43.9	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥ 6000	43.1	44.1	44.2	44.5	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 5000	45.3	46.6	46.8	47.1	47.1	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 4500	46.3	47.7	48.0	48.3	48.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 4000	49.6	51.3	51.5	51.9	51.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 3500	52.6	54.4	54.6	55.3	55.3	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 3000	59.5	61.6	62.0	62.7	62.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 2500	65.4	67.7	68.2	68.8	68.9	69.2	69.4	69.5	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 2000	70.2	72.9	73.3	74.0	74.3	74.6	74.8	74.9	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 1800	71.0	74.0	74.4	75.1	75.5	75.8	76.0	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 1500	73.7	78.5	79.2	80.0	80.6	81.0	81.3	81.4	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 1000	75.7	81.2	82.3	83.1	83.9	84.2	84.5	84.6	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 800	76.1	82.4	83.9	84.9	86.1	86.6	86.9	87.0	87.1	87.2	87.2	87.3	87.3	87.3	87.3	87.3
≥ 700	76.8	83.2	84.9	86.2	87.4	87.8	88.2	88.3	88.4	88.5	88.5	88.6	88.6	88.6	88.6	88.6
≥ 600	77.5	84.3	86.1	87.4	88.8	89.2	89.7	89.9	90.0	90.1	90.1	90.2	90.2	90.2	90.2	90.2
≥ 500	77.8	84.7	86.7	88.1	89.7	90.2	90.8	91.1	91.2	91.4	91.4	91.6	91.6	91.6	91.6	91.6
≥ 400	78.0	85.4	87.3	88.7	90.4	91.3	91.9	92.3	92.4	92.6	92.7	92.9	92.9	92.9	92.9	92.9
≥ 300	78.3	85.9	87.8	89.5	91.9	92.9	94.1	94.4	94.7	94.9	95.1	95.3	95.3	95.3	95.4	95.4
≥ 200	78.3	86.1	88.2	89.9	92.6	93.8	95.4	95.7	96.0	96.2	96.5	96.7	96.7	96.7	96.8	96.8
≥ 100	78.3	86.1	88.2	90.0	92.8	94.0	95.9	96.6	97.0	97.2	97.5	97.8	98.0	98.0	98.1	98.1
≥ 0	78.3	86.1	88.2	90.0	92.8	94.0	96.0	96.9	97.4	97.8	98.5	99.0	99.7	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

69-78

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	35.6	36.3	36.3	36.3	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
≥ 20000	40.7	42.0	42.0	42.0	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
≥ 18000	41.2	42.5	42.5	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 16000	41.3	42.6	42.6	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 14000	42.5	43.8	43.8	43.8	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 12000	44.3	45.7	45.7	45.7	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 10000	47.3	48.7	48.7	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 9000	47.8	49.2	49.2	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
≥ 8000	50.1	51.6	51.6	51.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 7000	51.0	52.5	52.5	52.5	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 6000	51.8	53.3	53.3	53.3	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 5000	53.6	55.1	55.2	55.2	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 4500	54.3	55.9	56.0	56.0	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 4000	57.4	59.2	59.3	59.3	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 3500	59.6	61.5	61.6	61.6	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 3000	66.1	68.5	68.6	68.6	69.2	69.2	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4
≥ 2500	71.9	74.5	74.6	74.6	75.3	75.3	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7
≥ 2000	75.9	78.8	79.0	79.1	79.9	79.9	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3
≥ 1800	76.5	79.9	80.2	80.3	81.1	81.1	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5
≥ 1500	78.8	82.9	83.4	83.5	84.3	84.3	84.6	84.7	84.8	84.9	85.0	85.0	85.0	85.0	85.0	85.0
≥ 1200	80.3	84.9	85.5	85.6	86.7	86.7	87.0	87.1	87.2	87.4	87.5	87.5	87.5	87.5	87.5	87.5
≥ 1000	80.9	85.8	86.5	86.8	88.2	88.3	88.7	88.8	88.9	89.1	89.2	89.2	89.2	89.2	89.2	89.2
≥ 900	81.4	86.4	87.2	87.5	89.0	89.0	89.5	89.6	89.7	89.9	90.0	90.0	90.0	90.0	90.0	90.0
≥ 800	81.8	87.0	87.8	88.6	90.1	90.2	90.7	91.1	91.2	91.4	91.5	91.5	91.5	91.5	91.5	91.5
≥ 700	82.0	87.6	88.7	89.7	91.4	91.6	92.1	92.7	92.8	93.0	93.1	93.1	93.1	93.1	93.1	93.1
≥ 600	82.1	88.1	89.1	90.4	92.1	92.4	92.9	93.5	93.6	93.9	94.1	94.2	94.2	94.2	94.2	94.2
≥ 500	82.2	88.5	89.7	91.0	93.3	93.5	94.3	95.3	95.4	95.6	96.0	96.1	96.2	96.2	96.2	96.2
≥ 400	82.2	88.5	89.7	91.1	93.6	93.9	94.8	96.2	96.6	96.9	97.5	97.6	97.7	97.7	97.7	97.7
≥ 300	82.2	88.5	89.7	91.1	93.9	94.3	95.4	96.8	97.2	97.5	98.2	98.4	98.5	98.5	98.5	98.5
≥ 200	82.2	88.5	89.7	91.1	94.0	94.4	95.5	96.9	97.4	97.8	98.7	98.9	99.4	99.5	99.6	99.6
≥ 100	82.2	88.6	89.8	91.2	94.1	94.5	95.6	97.0	97.5	98.0	98.8	99.0	99.5	99.6	99.8	100.0
≥ 0	82.2	88.6	89.8	91.2	94.1	94.5	95.6	97.0	97.5	98.0	98.8	99.0	99.5	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

69-78

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	36.8	37.8	38.0	38.2	38.6	38.6	38.6	38.6	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
≥ 20000	42.7	44.2	44.8	45.1	45.6	45.6	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 18000	43.2	44.7	45.2	45.5	46.1	46.1	46.1	46.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
IV 16000	43.3	44.9	45.4	45.7	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
IV 14000	44.3	46.0	46.5	46.8	47.4	47.4	47.4	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
IV 12000	45.6	47.5	48.0	48.3	48.9	48.9	48.9	49.0	49.1	49.1	49.1	49.1	49.2	49.2	49.2	49.2
IV 10000	48.4	50.6	51.1	51.5	52.0	52.0	52.0	52.1	52.2	52.2	52.2	52.2	52.3	52.3	52.3	52.3
IV 9000	48.5	50.7	51.2	51.6	52.1	52.1	52.1	52.2	52.3	52.3	52.3	52.3	52.4	52.4	52.4	52.4
IV 8000	51.2	53.9	54.5	54.9	55.5	55.5	55.8	55.9	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1
IV 7000	53.0	56.2	56.7	57.2	57.8	57.8	58.0	58.1	58.2	58.2	58.2	58.2	58.3	58.3	58.3	58.3
IV 6000	54.1	57.5	58.0	58.4	59.1	59.1	59.3	59.4	59.5	59.5	59.5	59.5	59.6	59.6	59.6	59.6
IV 5000	56.2	59.5	60.2	60.6	61.2	61.2	61.6	61.7	61.8	61.8	61.8	61.8	61.9	61.9	61.9	61.9
IV 4500	57.5	60.8	61.5	61.9	62.5	62.5	63.0	63.1	63.2	63.2	63.2	63.2	63.3	63.3	63.3	63.3
IV 4000	60.1	63.4	64.0	64.5	65.2	65.2	65.7	65.8	65.9	65.9	65.9	65.9	66.0	66.0	66.0	66.0
IV 3500	61.6	64.9	65.6	66.0	66.7	66.7	67.2	67.3	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.5
IV 3000	64.7	68.1	69.0	69.4	70.3	70.3	70.8	70.9	71.0	71.0	71.0	71.0	71.2	71.2	71.2	71.2
IV 2500	70.2	74.3	75.1	75.8	76.7	76.7	77.3	77.4	77.5	77.5	77.5	77.5	77.6	77.6	77.6	77.6
IV 2000	72.7	77.7	78.8	79.4	80.4	80.4	80.9	81.1	81.2	81.2	81.2	81.2	81.3	81.3	81.3	81.3
IV 1800	73.5	78.7	79.8	80.4	81.5	81.5	82.0	82.1	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3
IV 1500	74.8	80.4	81.5	82.3	83.6	83.6	84.4	84.5	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7
IV 1200	76.1	82.2	83.6	84.6	86.0	86.1	86.9	87.0	87.1	87.1	87.1	87.1	87.2	87.2	87.2	87.2
IV 1000	76.4	83.1	84.7	85.7	87.1	87.2	88.1	88.2	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.4
IV 900	76.5	83.5	85.4	86.3	87.7	87.8	88.7	88.8	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0
IV 800	77.2	84.3	86.1	87.1	88.6	88.7	89.6	90.2	90.3	90.4	90.4	90.4	90.5	90.5	90.5	90.5
IV 700	77.3	84.4	86.3	87.4	89.1	89.2	90.6	91.3	91.4	91.6	91.6	91.6	91.8	91.8	91.8	91.8
IV 600	77.4	84.7	86.7	87.9	89.7	89.8	91.2	91.9	92.0	92.2	92.2	92.2	92.5	92.5	92.5	92.5
IV 500	77.6	85.0	87.1	88.4	90.7	91.0	92.6	93.5	93.6	94.0	94.0	94.0	94.3	94.3	94.3	94.4
IV 400	77.6	85.1	87.3	88.9	91.4	91.6	93.4	94.6	94.9	95.4	95.4	95.6	95.9	95.9	95.9	96.0
IV 300	77.6	85.1	87.3	88.9	91.4	91.8	93.8	95.3	95.7	96.1	96.4	96.8	97.1	97.1	97.1	97.2
IV 200	77.6	85.1	87.3	88.9	91.4	91.8	93.9	95.6	96.1	96.7	97.0	97.4	98.3	98.4	98.5	98.6
IV 100	77.6	85.1	87.3	88.9	91.4	91.8	93.9	95.6	96.1	96.7	97.0	97.4	98.4	98.5	98.6	99.9
IV 0	77.6	85.1	87.3	88.9	91.4	91.8	93.9	95.6	96.1	96.7	97.0	97.4	98.4	98.5	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 929

USAF ETAC 102M 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835

K I SAWYER AFB MI

69-76

UCI

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	37.4	38.4	38.9	39.2	39.7	40.0	40.1	40.3	40.4	40.4	40.5	40.5	40.5	40.5	40.6	40.6
≥ 20000	41.1	42.2	42.7	43.2	43.7	44.0	44.1	44.3	44.4	44.4	44.5	44.5	44.5	44.5	44.6	44.6
IV 18000	41.6	42.7	43.3	44.0	44.4	44.7	44.8	45.1	45.2	45.2	45.3	45.3	45.3	45.3	45.4	45.4
IV 16000	42.0	43.1	43.8	44.4	44.8	45.2	45.3	45.5	45.6	45.6	45.7	45.7	45.7	45.7	45.8	45.8
IV 14000	43.0	44.1	44.7	45.4	45.8	46.1	46.2	46.5	46.6	46.6	46.7	46.7	46.7	46.7	46.8	46.8
IV 12000	43.5	44.7	45.4	46.0	46.8	47.1	47.2	47.4	47.5	47.5	47.6	47.6	47.6	47.6	47.7	47.7
IV 10000	45.6	47.3	48.1	48.7	49.8	50.1	50.2	50.4	50.5	50.5	50.6	50.6	50.6	50.6	50.8	50.8
IV 9000	46.2	48.0	48.8	49.5	50.5	50.9	51.0	51.2	51.3	51.3	51.4	51.4	51.4	51.4	51.5	51.5
IV 8000	48.0	49.9	50.8	51.4	52.5	52.8	52.9	53.1	53.2	53.2	53.3	53.3	53.3	53.3	53.4	53.4
IV 7000	49.6	51.9	52.8	53.4	54.5	54.8	54.9	55.2	55.3	55.3	55.4	55.4	55.4	55.4	55.5	55.5
IV 6000	51.0	53.7	54.6	55.3	56.3	56.7	56.8	57.0	57.1	57.1	57.2	57.2	57.2	57.2	57.3	57.3
IV 5000	54.7	57.7	58.7	59.4	60.5	60.9	61.0	61.3	61.4	61.4	61.5	61.5	61.5	61.5	61.6	61.6
IV 4500	55.8	58.8	59.8	60.4	61.6	61.9	62.0	62.5	62.6	62.6	62.7	62.7	62.7	62.7	62.8	62.8
IV 4000	59.4	62.6	63.5	64.3	65.7	66.0	66.2	66.7	66.8	66.8	66.9	66.9	66.9	66.9	67.0	67.0
IV 3500	60.6	63.9	64.8	65.6	67.0	67.3	67.5	68.0	68.1	68.1	68.2	68.2	68.2	68.2	68.3	68.3
IV 3000	63.1	66.5	67.8	68.7	70.4	70.8	71.0	71.4	71.5	71.5	71.7	71.7	71.7	71.7	71.8	71.8
IV 2500	65.7	69.0	70.4	71.3	73.0	73.3	73.7	74.1	74.2	74.3	74.4	74.4	74.4	74.4	74.5	74.5
IV 2000	67.7	71.7	73.4	74.3	76.0	76.3	76.8	77.2	77.3	77.4	77.5	77.5	77.5	77.5	77.6	77.6
IV 1800	68.0	71.9	73.7	74.5	76.3	76.7	77.1	77.5	77.6	77.7	77.8	77.8	77.8	77.8	78.0	78.0
IV 1500	70.0	74.4	76.5	77.5	79.7	80.1	80.5	81.0	81.1	81.2	81.3	81.3	81.3	81.3	81.4	81.4
IV 1200	70.8	75.4	77.5	78.6	80.8	81.2	81.6	82.2	82.3	82.4	82.5	82.5	82.5	82.5	82.6	82.6
IV 1000	71.3	76.2	78.5	79.9	82.3	82.7	83.2	83.8	83.9	84.0	84.2	84.2	84.2	84.2	84.3	84.3
IV 900	71.8	77.0	79.4	80.8	83.3	83.8	84.3	84.8	85.1	85.3	85.5	85.5	85.5	85.5	85.6	85.6
IV 800	72.5	77.7	80.2	81.6	84.5	84.9	85.7	86.2	86.5	86.7	87.0	87.0	87.1	87.1	87.2	87.2
IV 700	72.5	77.8	80.5	82.0	85.4	85.8	86.9	87.7	88.0	88.3	88.6	88.6	88.7	88.7	88.8	88.8
IV 600	72.5	78.1	80.9	82.5	86.3	86.8	87.8	88.7	88.9	89.2	89.6	89.6	89.7	89.7	89.8	89.8
IV 500	72.6	78.2	81.1	82.8	87.0	87.5	89.0	90.2	90.4	90.9	91.4	91.4	91.5	91.5	91.6	91.7
IV 400	72.6	78.6	81.5	83.2	87.7	88.4	90.0	91.5	91.9	92.6	93.1	93.1	93.2	93.2	93.3	93.4
IV 300	72.6	78.7	81.6	83.3	87.8	88.7	91.3	93.3	94.1	94.8	95.5	95.6	95.7	95.7	95.9	96.0
IV 200	72.6	78.7	81.6	83.3	87.8	88.7	91.5	93.5	94.4	95.4	96.5	96.6	96.9	96.9	97.4	97.7
IV 100	72.6	78.7	81.6	83.3	87.8	88.9	91.7	93.8	94.6	95.7	96.9	97.1	97.4	97.5	98.6	100.0
IV 0	72.6	78.7	81.6	83.3	87.8	88.9	91.7	93.8	94.6	95.7	96.9	97.1	97.4	97.5	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB HI

69-78

QCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING	33.4	34.3	34.7	35.0	35.6	35.6	35.7	35.8	35.9	35.9	36.0	36.0	36.2	36.3	36.4	36.5
≥ 20000	37.5	38.6	39.1	39.5	40.1	40.2	40.2	40.3	40.4	40.4	40.6	40.6	40.7	40.8	40.9	41.1
IV 18000	38.0	39.1	39.6	40.0	40.6	40.7	40.7	40.8	40.9	41.0	41.1	41.1	41.2	41.3	41.4	41.6
IV 16000	38.2	39.3	39.9	40.3	40.8	40.9	41.0	41.1	41.1	41.2	41.3	41.3	41.5	41.5	41.7	41.8
IV 14000	39.0	40.2	40.8	41.2	41.8	41.8	41.9	42.0	42.1	42.1	42.3	42.3	42.4	42.5	42.6	42.8
IV 12000	40.2	41.5	42.0	42.5	43.1	43.2	43.3	43.4	43.5	43.5	43.6	43.6	43.8	43.9	44.0	44.2
IV 10000	42.8	44.4	45.0	45.4	46.1	46.3	46.3	46.4	46.5	46.6	46.7	46.7	46.9	47.0	47.1	47.3
IV 9000	43.3	45.0	45.6	46.0	46.8	46.9	46.9	47.1	47.2	47.2	47.4	47.4	47.6	47.6	47.8	48.0
IV 8000	44.8	46.7	47.3	47.7	48.5	48.6	48.7	48.8	48.9	49.0	49.2	49.2	49.4	49.4	49.6	49.8
IV 7000	46.1	48.2	48.8	49.2	50.0	50.2	50.3	50.4	50.5	50.6	50.7	50.7	51.0	51.0	51.1	51.4
IV 6000	47.5	49.7	50.4	50.9	51.7	51.8	51.9	52.0	52.2	52.2	52.4	52.4	52.6	52.7	52.8	53.0
IV 5000	50.4	52.8	53.5	54.1	55.0	55.2	55.4	55.5	55.7	55.7	55.9	55.9	56.1	56.2	56.3	56.5
IV 4500	51.6	54.1	54.9	55.4	56.4	56.6	56.8	57.0	57.1	57.2	57.4	57.4	57.6	57.6	57.8	58.0
IV 4000	54.9	57.7	58.6	59.2	60.3	60.5	60.8	61.0	61.1	61.2	61.4	61.4	61.6	61.7	61.8	62.0
IV 3500	56.7	59.6	60.5	61.2	62.3	62.5	62.8	63.0	63.2	63.2	63.4	63.4	63.7	63.7	63.8	64.1
IV 3000	61.2	64.4	65.5	66.2	67.6	67.8	68.1	68.3	68.5	68.6	68.8	68.8	69.0	69.1	69.2	69.4
IV 2500	64.8	68.3	69.4	70.1	71.5	71.7	72.1	72.3	72.5	72.6	72.8	72.8	73.1	73.1	73.3	73.5
IV 2000	67.6	71.5	72.7	73.6	75.0	75.2	75.7	75.9	76.1	76.3	76.5	76.5	76.7	76.8	76.9	77.1
IV 1800	68.1	72.2	73.5	74.3	75.8	76.1	76.5	76.8	77.0	77.1	77.3	77.3	77.5	77.6	77.7	78.0
IV 1500	69.8	74.6	76.1	77.0	78.8	79.1	79.6	80.0	80.2	80.4	80.6	80.6	80.8	80.9	81.0	81.3
IV 1200	71.0	76.3	77.9	79.0	80.8	81.2	81.7	82.1	82.4	82.5	82.7	82.7	83.0	83.0	83.2	83.4
IV 1000	71.6	77.1	79.0	80.1	82.1	82.5	82.2	83.6	83.8	84.0	84.3	84.3	84.6	84.6	84.8	85.0
IV 900	72.0	77.8	79.7	80.9	83.0	83.4	84.0	84.4	84.7	84.9	85.2	85.2	85.5	85.5	85.7	85.9
IV 800	72.6	78.5	80.7	81.9	84.1	84.6	85.3	85.8	86.1	86.3	86.6	86.6	86.9	87.0	87.1	87.3
IV 700	72.8	79.0	81.2	82.5	85.0	85.5	86.4	87.1	87.4	87.7	88.0	88.1	88.4	88.4	88.6	88.8
IV 600	73.1	79.5	81.9	83.3	86.0	86.6	87.6	88.2	88.5	88.9	89.2	89.3	89.6	89.7	89.8	90.1
IV 500	73.2	79.8	82.3	84.0	87.2	88.0	89.2	90.1	90.5	90.9	91.3	91.4	91.8	91.8	92.0	92.3
IV 400	73.2	80.0	82.5	84.3	87.9	88.8	90.4	91.6	92.1	92.7	93.2	93.2	93.7	93.7	93.9	94.2
IV 300	73.2	80.0	82.6	84.5	88.2	89.2	91.2	92.8	93.5	94.1	94.7	94.9	95.4	95.5	95.8	96.1
IV 200	73.2	80.0	82.6	84.5	88.3	89.4	91.5	93.3	94.1	94.9	95.9	96.2	97.1	97.3	97.8	98.2
IV 100	73.2	80.1	82.6	84.5	88.3	89.4	91.6	93.3	94.2	94.9	96.0	96.3	97.3	97.6	98.3	99.9
IV 0	73.2	80.1	82.6	84.5	88.3	89.4	91.6	93.3	94.2	94.9	96.0	96.3	97.3	97.6	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 7437

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

69-78

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	28.0	29.3	30.2	30.2	30.6	30.6	30.7	30.7	30.8	30.8	30.9	30.9	31.2	31.2	31.2	31.4
≥20000	29.9	31.2	32.1	32.1	32.4	32.4	32.6	32.6	32.7	32.7	32.9	32.9	33.2	33.2	33.2	33.4
IV 18000	30.0	31.3	32.2	32.2	32.6	32.6	32.7	32.7	32.8	32.8	33.0	33.0	33.3	33.3	33.3	33.6
IV 16000	30.1	31.4	32.3	32.3	32.7	32.7	32.8	32.8	32.9	32.9	33.1	33.1	33.4	33.4	33.4	33.7
IV 14000	30.1	31.4	32.3	32.3	32.7	32.7	32.8	32.8	32.9	32.9	33.1	33.1	33.4	33.4	33.4	33.7
IV 12000	31.4	32.8	33.7	33.7	34.0	34.0	34.1	34.1	34.2	34.2	34.4	34.4	34.8	34.8	34.8	35.0
IV 10000	32.1	33.4	34.3	34.3	34.7	34.7	34.8	34.8	34.9	34.9	35.1	35.1	35.4	35.4	35.4	35.7
IV 9000	32.3	33.7	34.6	34.6	34.9	34.9	35.0	35.0	35.1	35.1	35.3	35.3	35.7	35.7	35.7	35.9
IV 8000	33.8	35.2	36.1	36.2	36.7	36.7	36.8	36.8	36.9	36.9	37.1	37.1	37.4	37.4	37.4	37.7
IV 7000	34.8	36.2	37.1	37.2	37.7	37.7	37.8	37.8	37.9	37.9	38.1	38.1	38.4	38.4	38.4	38.7
IV 6000	35.6	37.1	38.0	38.1	39.0	39.0	39.1	39.1	39.2	39.2	39.4	39.4	39.8	39.8	39.8	40.0
IV 5000	38.6	40.3	41.3	41.4	42.4	42.4	42.6	42.6	42.7	42.7	42.9	42.9	43.2	43.2	43.2	43.4
IV 4500	40.7	42.6	43.7	43.8	44.8	44.8	44.9	44.9	45.0	45.0	45.2	45.2	45.6	45.6	45.6	45.8
IV 4000	43.3	45.8	46.9	47.0	48.3	48.3	48.4	48.4	48.6	48.6	48.8	48.8	49.1	49.1	49.1	49.3
IV 3500	44.7	47.1	48.2	48.4	49.8	49.8	49.9	50.0	50.1	50.1	50.3	50.3	50.7	50.7	50.7	50.9
IV 3000	49.2	51.9	53.1	53.6	55.6	55.6	55.8	55.9	56.1	56.1	56.3	56.3	56.7	56.7	56.7	56.9
IV 2500	53.8	56.9	58.4	59.3	61.8	61.9	62.1	62.2	62.4	62.4	62.7	62.7	63.0	63.0	63.0	63.2
IV 2000	58.0	61.3	63.2	64.2	66.8	67.1	68.1	68.2	68.4	68.4	68.7	68.7	69.0	69.0	69.0	69.2
IV 1800	59.2	62.7	64.6	65.6	68.1	68.4	69.4	69.6	69.8	69.8	70.0	70.0	70.3	70.3	70.3	70.6
IV 1500	62.6	66.6	68.8	69.9	72.7	73.0	74.3	74.7	74.9	74.9	75.2	75.2	75.6	75.6	75.6	75.8
IV 1200	64.4	68.6	70.9	72.3	75.6	75.9	77.7	78.0	78.3	78.6	78.9	78.9	79.2	79.2	79.2	79.4
IV 1000	65.1	69.6	71.9	73.8	77.4	77.8	79.7	80.1	80.9	81.1	81.4	81.4	81.8	81.8	81.8	82.0
IV 900	65.7	70.1	72.6	74.4	78.2	78.6	80.4	80.9	81.7	82.1	82.4	82.4	82.8	82.8	82.8	83.0
IV 800	66.0	70.7	73.1	75.0	79.2	79.6	81.4	82.3	83.2	83.7	84.3	84.3	84.7	84.7	84.7	84.9
IV 700	66.3	71.2	73.7	75.6	80.0	80.4	82.4	83.3	84.2	84.8	85.6	85.6	85.9	85.9	85.9	86.1
IV 600	66.4	71.6	74.2	76.2	80.8	81.4	83.7	84.7	85.6	86.4	87.2	87.2	87.7	87.7	87.7	87.9
IV 500	66.7	72.2	75.0	77.0	81.7	82.7	85.2	86.3	87.2	88.3	89.1	89.1	89.9	89.9	90.0	90.2
IV 400	66.8	72.3	75.2	77.2	82.1	83.3	86.3	87.4	88.4	89.6	90.3	90.3	91.1	91.3	91.4	91.7
IV 300	66.8	72.3	75.2	77.7	82.7	84.0	87.4	89.1	90.3	91.9	93.2	93.2	94.3	94.6	94.7	95.2
IV 200	66.8	72.3	75.2	77.7	82.7	84.0	87.6	89.2	90.9	92.8	94.4	94.6	96.1	96.4	96.6	97.1
IV 100	66.8	72.3	75.2	77.7	82.7	84.0	87.6	89.3	91.0	93.1	94.9	95.0	97.1	97.7	98.0	99.3
IV 0	66.8	72.3	75.2	77.7	82.7	84.0	87.6	89.3	91.0	93.1	95.0	95.1	97.2	97.8	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

09-78

NDV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ .05
NO CEILING ≥ 20000	28.6	29.2	30.1	30.4	30.7	30.7	30.8	31.1	31.1	31.2	31.4	31.4	31.7	31.7	31.8	31.8
IV 18000	29.1	29.8	30.7	31.0	31.2	31.2	31.3	31.7	31.7	31.8	32.0	32.0	32.2	32.2	32.3	32.3
IV 16000	29.1	29.8	30.7	31.0	31.2	31.2	31.3	31.7	31.7	31.8	32.0	32.0	32.2	32.2	32.3	32.3
IV 14000	29.3	30.0	30.9	31.2	31.4	31.4	31.6	31.9	31.9	32.0	32.2	32.2	32.4	32.4	32.5	32.6
IV 12000	30.0	30.7	31.6	31.9	32.1	32.1	32.2	32.6	32.6	32.7	32.9	32.9	33.1	33.1	33.2	33.2
IV 10000	31.8	32.4	33.3	33.7	33.9	33.9	34.0	34.3	34.3	34.4	34.7	34.7	34.9	34.9	35.0	35.0
IV 9000	32.7	33.3	34.3	34.7	34.9	34.9	35.0	35.3	35.3	35.4	35.7	35.7	35.9	35.9	36.0	36.0
IV 8000	32.9	33.6	34.6	34.9	35.1	35.1	35.2	35.6	35.6	35.7	35.9	35.9	36.1	36.1	36.2	36.2
IV 7000	34.2	34.9	35.9	36.2	36.4	36.4	36.6	36.9	36.9	37.0	37.2	37.2	37.4	37.4	37.6	37.6
IV 6000	35.0	35.7	36.7	37.0	37.2	37.2	37.3	37.7	37.7	37.8	38.0	38.0	38.2	38.2	38.3	38.3
IV 5000	35.6	36.4	37.4	37.8	38.1	38.1	38.2	38.6	38.6	38.7	38.9	38.9	39.1	39.1	39.2	39.2
IV 4500	38.4	39.3	40.3	40.7	41.0	41.1	41.2	41.6	41.6	41.7	41.9	41.9	42.1	42.1	42.2	42.2
IV 4000	40.6	41.4	42.4	42.8	43.1	43.2	43.3	43.7	43.7	43.8	44.0	44.0	44.2	44.2	44.3	44.3
IV 3500	44.8	46.0	47.2	47.7	48.4	48.6	48.9	49.2	49.2	49.3	49.6	49.6	49.8	49.8	49.9	49.9
IV 3000	46.0	47.2	48.4	49.0	50.0	50.1	50.6	51.0	51.0	51.1	51.3	51.3	51.6	51.6	51.7	51.7
IV 2500	49.0	50.4	51.7	52.4	53.7	53.8	54.6	55.0	55.0	55.2	55.4	55.4	55.7	55.7	55.8	55.8
IV 2000	52.8	54.6	56.2	57.2	58.6	58.7	59.7	60.6	60.7	60.9	61.1	61.1	61.3	61.3	61.4	61.4
IV 1800	57.7	60.1	61.8	63.0	65.0	65.2	66.4	67.4	67.7	67.9	68.1	68.1	68.4	68.4	68.6	68.6
IV 1500	59.4	62.0	63.7	64.9	67.1	67.3	68.6	69.6	69.8	70.0	70.2	70.2	70.6	70.6	70.7	70.7
IV 1200	63.2	66.1	67.8	69.0	71.4	71.7	73.2	74.3	74.6	74.8	75.0	75.1	75.3	75.3	75.4	75.4
IV 1000	65.2	68.4	70.2	71.8	74.6	74.8	76.6	77.8	78.2	78.4	78.7	78.7	79.0	79.0	79.1	79.1
IV 900	65.9	69.2	71.0	72.7	75.7	75.9	77.9	79.3	80.2	80.7	80.9	80.9	81.2	81.2	81.3	81.3
IV 800	66.1	69.6	71.3	73.0	76.2	76.4	78.6	80.2	81.2	81.7	82.0	82.0	82.3	82.3	82.4	82.4
IV 700	66.3	69.9	71.7	73.4	76.9	77.1	79.3	81.3	82.3	82.8	83.1	83.1	83.6	83.6	83.8	83.8
IV 600	66.7	70.4	72.2	74.0	78.1	78.3	80.6	82.6	83.6	84.0	84.2	84.2	84.8	84.8	85.1	85.1
IV 500	66.8	71.0	73.1	75.0	79.6	79.8	82.1	84.2	85.3	86.0	86.3	86.3	86.8	86.8	87.1	87.1
IV 400	66.9	71.4	73.7	75.7	80.8	81.3	83.8	86.1	87.3	88.3	88.8	88.8	89.6	89.6	89.9	89.9
IV 300	66.9	71.4	73.8	75.9	81.7	82.3	85.2	87.9	89.1	90.1	90.7	90.7	91.4	91.4	91.8	91.8
IV 200	66.9	71.4	73.8	75.9	81.7	82.6	85.8	89.1	90.6	91.7	92.7	92.7	93.7	93.7	94.1	94.4
IV 100	66.9	71.4	73.8	75.9	81.7	82.6	86.0	89.3	91.2	92.9	94.3	94.3	96.0	96.0	96.8	97.1
IV 0	66.9	71.4	73.8	75.9	81.7	82.6	86.0	89.3	91.2	92.9	94.3	94.3	96.9	96.9	97.0	99.4

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-78

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0600

CEILING FEET	VISIBILITY STATUTE MILES																
	≥ 10	≥ 20	≥ 25	≥ 24	≥ 23	≥ 22	≥ 21	≥ 20	≥ 19	≥ 18	≥ 17	≥ 16	≥ 15	≥ 14	≥ 13	≥ 12	≥ 11
NO CEILING	26.4	26.9	27.3	27.7	28.4	28.7	28.9	29.1	29.2	29.4	29.4	29.6	29.6	29.7	29.7	29.7	29.7
≥ 20000	27.3	27.8	28.2	28.5	29.3	29.6	29.6	29.8	30.0	30.1	30.3	30.3	30.4	30.4	30.6	30.6	30.6
≥ 18000	27.4	27.9	28.3	28.7	29.4	29.7	29.7	29.9	30.1	30.2	30.4	30.4	30.6	30.6	30.7	30.7	30.7
≥ 16000	27.4	27.9	28.3	28.7	29.4	29.7	29.7	29.9	30.1	30.2	30.4	30.4	30.6	30.6	30.7	30.7	30.7
≥ 14000	27.6	28.0	28.4	28.8	29.6	29.8	29.8	30.0	30.2	30.3	30.6	30.6	30.7	30.7	30.8	30.8	30.8
≥ 12000	28.9	29.5	29.8	30.1	30.9	31.1	31.1	31.3	31.6	31.7	31.9	31.9	32.0	32.0	32.1	32.2	32.2
≥ 10000	30.0	30.4	30.9	31.2	32.0	32.2	32.2	32.4	32.7	32.8	33.0	33.0	33.1	33.1	33.2	33.3	33.3
≥ 9000	30.4	31.0	31.4	31.8	32.6	32.8	32.8	33.0	33.2	33.3	33.6	33.6	33.7	33.7	33.8	33.9	33.9
≥ 8000	31.3	32.3	32.8	33.1	33.9	34.1	34.1	34.3	34.6	34.7	34.9	34.9	35.0	35.0	35.1	35.2	35.2
≥ 7000	32.4	33.0	33.4	33.8	34.6	34.8	34.8	35.0	35.2	35.3	35.6	35.6	35.7	35.7	35.8	35.9	35.9
≥ 6000	33.1	33.7	34.1	34.4	35.2	35.4	35.4	35.7	35.9	36.0	36.2	36.2	36.4	36.4	36.6	36.7	36.7
≥ 5000	35.8	36.7	37.2	37.8	38.9	39.1	39.1	39.3	39.6	39.7	39.9	39.9	40.1	40.1	40.2	40.3	40.3
≥ 4500	37.0	38.1	38.7	39.2	40.3	40.6	40.6	40.8	41.0	41.1	41.3	41.3	41.6	41.6	41.7	41.8	41.8
≥ 4000	40.2	41.8	42.3	42.9	44.2	44.4	45.0	45.2	45.4	45.6	45.8	45.8	46.0	46.0	46.1	46.2	46.2
≥ 3500	42.0	43.6	44.1	44.8	46.1	46.3	46.9	47.4	47.7	47.8	48.0	48.0	48.2	48.2	48.3	48.4	48.4
≥ 3000	44.4	46.2	46.9	47.8	49.2	49.4	50.2	51.0	51.2	51.3	51.6	51.6	51.8	51.8	51.9	52.0	52.0
≥ 2500	49.6	51.6	52.3	53.3	54.9	55.1	56.2	57.1	57.4	57.7	58.1	58.1	58.3	58.3	58.4	58.6	58.6
≥ 2000	55.2	57.7	58.7	59.8	61.4	61.7	63.0	63.9	64.2	64.4	64.9	64.9	65.2	65.2	65.3	65.4	65.4
≥ 1800	56.8	59.2	60.2	61.3	63.0	63.2	64.8	65.7	66.0	66.2	66.7	66.7	67.0	67.0	67.1	67.2	67.2
≥ 1500	61.6	64.3	65.4	66.7	68.8	69.2	70.8	72.0	72.4	72.7	73.1	73.1	73.4	73.4	73.6	73.7	73.7
≥ 1200	63.6	66.6	67.7	69.0	72.3	72.9	74.6	75.9	76.3	76.6	77.0	77.0	77.4	77.4	77.6	77.7	77.7
≥ 1000	64.3	67.4	68.6	69.9	73.3	73.9	75.8	77.1	78.0	78.3	78.8	78.8	79.2	79.2	79.3	79.4	79.4
≥ 900	64.8	68.1	69.2	70.6	74.0	74.6	76.6	77.9	78.9	79.3	79.9	79.9	80.4	80.4	80.6	80.7	80.7
≥ 800	64.9	68.3	69.7	71.0	74.7	75.2	77.3	78.7	79.8	80.3	80.9	81.0	81.7	81.7	81.8	81.9	81.9
≥ 700	65.0	68.7	70.0	71.6	75.6	76.1	78.6	80.0	81.3	81.9	82.4	82.6	83.2	83.2	83.3	83.4	83.4
≥ 600	65.0	68.7	70.3	72.0	76.7	77.2	79.8	81.6	82.9	83.6	84.2	84.3	85.0	85.0	85.1	85.2	85.2
≥ 500	65.6	69.7	71.6	73.6	78.6	79.1	82.0	84.1	85.9	87.0	87.7	87.8	88.8	88.8	88.9	89.0	89.0
≥ 400	65.6	69.7	71.9	73.7	78.8	79.4	82.7	85.4	87.4	88.6	89.3	89.4	90.6	90.6	90.7	90.8	90.8
≥ 300	65.0	69.7	72.0	73.8	79.1	79.8	83.4	87.1	89.3	90.9	92.1	92.2	93.4	93.4	93.6	93.7	93.7
≥ 200	65.7	69.9	72.2	74.0	79.3	80.0	84.1	88.0	90.6	92.4	94.3	94.8	96.6	96.6	97.0	97.7	97.7
≥ 100	65.7	69.9	72.2	74.0	79.3	80.0	84.1	88.0	91.0	93.3	95.4	95.9	97.8	97.8	98.7	99.7	99.7
≥ 0	65.7	69.9	72.2	74.0	79.3	80.0	84.1	88.0	91.0	93.3	95.4	95.9	97.8	97.8	98.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

9-78

NDV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	22.1	23.4	23.6	24.1	24.4	24.4	24.4	24.4	24.4	24.5	24.6	24.6	24.6	24.6	24.6	24.6
≥ 20000	25.0	26.3	26.5	27.0	27.4	27.4	27.4	27.5	27.5	27.6	27.7	27.7	27.7	27.7	27.7	27.7
IV 18000	25.7	26.9	27.1	27.7	28.0	28.0	28.0	28.1	28.1	28.3	28.4	28.4	28.4	28.4	28.4	28.4
IV 16000	25.8	27.0	27.3	27.8	28.1	28.1	28.1	28.3	28.3	28.4	28.5	28.5	28.5	28.5	28.5	28.5
IV 14000	26.3	27.5	27.7	28.3	28.6	28.6	28.6	28.7	28.7	28.8	28.9	28.9	28.9	28.9	28.9	28.9
IV 12000	27.4	28.6	28.8	29.4	29.7	29.7	29.7	29.8	29.8	29.9	30.0	30.0	30.0	30.0	30.0	30.1
IV 10000	28.6	29.8	30.0	30.6	31.0	31.0	31.0	31.1	31.1	31.3	31.4	31.4	31.4	31.4	31.4	31.5
IV 9000	28.9	30.1	30.4	31.0	31.5	31.5	31.5	31.6	31.6	31.7	31.8	31.8	31.8	31.8	31.8	31.9
IV 8000	31.3	32.5	32.7	33.4	33.9	33.9	34.0	34.1	34.1	34.3	34.4	34.4	34.4	34.4	34.6	34.7
IV 7000	33.0	34.4	34.6	35.3	35.9	35.9	36.0	36.2	36.2	36.3	36.4	36.4	36.4	36.4	36.6	36.7
IV 6000	33.5	34.8	35.0	35.7	36.5	36.5	36.6	36.7	36.7	36.9	37.3	37.3	37.3	37.3	37.5	37.6
IV 5000	35.9	37.6	37.9	38.7	39.8	39.8	40.0	40.3	40.3	40.5	40.8	40.8	40.8	40.8	41.2	41.3
IV 4500	36.7	38.5	38.8	39.6	40.7	40.7	40.9	41.2	41.2	41.4	41.7	41.7	41.7	41.7	42.0	42.2
IV 4000	38.7	40.8	41.3	42.2	43.5	43.6	43.9	44.2	44.2	44.4	44.7	44.7	44.7	44.7	45.1	45.2
IV 3500	40.3	42.4	43.0	44.0	45.8	45.9	46.3	46.5	46.5	46.7	47.1	47.1	47.1	47.1	47.4	47.5
IV 3000	42.8	45.8	46.9	48.1	50.1	50.2	50.6	51.2	51.3	51.5	51.8	51.8	51.8	51.8	52.2	52.3
IV 2500	48.5	51.8	53.3	54.7	57.2	57.4	58.0	58.7	59.0	59.2	59.5	59.5	59.5	59.5	59.8	60.0
IV 2000	54.1	58.2	59.8	61.4	64.3	64.6	65.7	66.6	67.0	67.2	67.7	67.7	67.9	67.9	68.2	68.3
IV 1800	56.2	60.5	62.2	63.8	66.9	67.2	68.3	69.2	69.5	69.7	70.3	70.3	70.4	70.4	70.7	70.9
IV 1500	59.2	64.0	65.6	67.5	71.0	71.3	72.5	73.5	73.9	74.1	74.6	74.6	74.7	74.7	75.1	75.2
IV 1200	61.2	66.1	67.7	69.7	73.4	73.7	75.0	76.1	76.4	76.6	77.2	77.2	77.3	77.3	77.6	77.8
IV 1000	61.7	66.7	68.4	70.4	74.1	74.9	76.2	77.3	77.8	78.2	78.9	78.9	79.0	79.0	79.3	79.4
IV 900	62.3	67.4	69.3	71.4	75.2	76.2	77.6	78.8	79.2	79.6	80.3	80.3	80.4	80.4	80.8	80.9
IV 800	62.6	68.0	70.1	72.2	76.0	77.0	78.6	79.8	80.3	80.8	81.4	81.4	81.5	81.5	81.9	82.0
IV 700	63.1	68.4	70.6	72.7	76.5	77.8	79.5	81.0	81.5	82.2	83.0	83.0	83.1	83.1	83.4	83.5
IV 600	63.2	68.9	71.3	73.4	77.4	78.9	80.8	82.4	83.1	84.2	85.0	85.0	85.1	85.1	85.4	85.5
IV 500	63.2	69.2	71.7	73.9	78.5	80.1	82.2	84.4	85.9	87.1	88.2	88.2	89.0	89.0	89.4	89.5
IV 400	63.2	69.3	71.9	74.0	79.0	80.6	83.0	85.5	87.3	88.7	89.9	89.9	90.9	90.9	91.3	91.4
IV 300	63.5	69.6	72.2	74.3	79.4	81.1	83.4	86.5	89.1	90.9	92.4	92.7	93.9	93.9	94.4	94.7
IV 200	63.6	69.9	72.4	74.6	79.8	81.4	83.8	87.2	89.9	91.9	94.2	94.7	96.2	96.8	97.9	98.3
IV 100	63.6	69.9	72.4	74.6	79.8	81.4	83.8	87.2	89.9	91.9	94.4	95.0	96.8	97.4	98.6	100.0
IV 0	63.6	69.9	72.4	74.6	79.8	81.4	83.8	87.2	89.9	91.9	94.4	95.0	96.8	97.4	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

0-76

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0.01	≥0
NO CEILING	21.3	21.4	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
≥ 25000	24.8	25.1	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
≥ 15000	25.0	25.3	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
≥ 10000	25.0	25.3	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
≥ 7500	25.2	25.6	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
≥ 5000	25.7	26.0	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
≥ 4000	27.3	27.9	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1
≥ 3000	27.7	28.2	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
≥ 2000	29.2	29.9	30.1	30.1	30.1	30.1	30.1	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
≥ 1500	30.6	31.2	31.4	31.6	31.6	31.6	31.6	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
≥ 1000	32.0	32.7	33.0	33.2	33.2	33.2	33.4	33.6	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
≥ 800	33.6	34.4	34.9	35.3	35.4	35.4	35.7	35.8	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 600	34.4	35.3	35.8	36.3	36.6	36.6	36.8	36.9	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 400	36.6	38.2	38.9	39.9	40.2	40.2	40.6	40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
≥ 300	38.6	40.3	41.0	42.0	42.6	42.6	43.0	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 250	43.2	45.8	46.6	47.8	48.7	48.7	49.2	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
≥ 200	52.8	55.9	57.0	58.4	59.6	59.6	60.1	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 150	57.2	60.6	61.8	63.4	64.9	64.9	66.0	66.1	66.6	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 100	58.2	61.8	63.0	64.9	66.3	66.3	67.4	67.6	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.3
≥ 75	62.2	66.2	68.0	70.1	71.9	72.1	73.4	73.6	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.3
≥ 50	64.3	68.4	70.2	72.6	74.7	74.9	76.4	76.6	77.0	77.2	77.2	77.2	77.2	77.2	77.2	77.3
≥ 40	65.8	70.6	72.4	75.0	77.6	77.8	79.6	79.7	80.1	80.3	80.6	80.6	80.6	80.6	80.6	80.7
≥ 30	66.3	71.6	74.0	76.7	79.8	80.4	82.2	82.3	82.8	83.0	83.3	83.4	83.4	83.4	83.4	83.6
≥ 20	66.4	72.1	74.8	77.6	80.8	81.4	83.2	83.3	83.8	84.0	84.4	84.6	84.6	84.6	84.6	84.7
≥ 15	67.0	72.9	75.7	78.6	82.1	83.0	84.8	84.9	85.3	85.6	86.2	86.3	86.3	86.3	86.3	86.4
≥ 10	67.0	72.9	75.8	79.1	82.7	83.6	85.4	85.7	86.1	86.3	87.1	87.2	87.2	87.2	87.2	87.3
≥ 7.5	67.2	73.4	76.6	80.2	84.0	85.3	87.8	88.6	89.0	89.4	90.6	90.8	91.0	91.0	91.2	91.3
≥ 5	67.2	73.6	77.0	80.8	84.8	86.2	88.9	89.9	90.9	91.6	92.8	93.0	93.4	93.4	93.9	94.0
≥ 3.5	67.3	73.8	77.2	81.0	85.0	86.4	89.6	90.8	92.1	92.8	94.6	94.8	96.2	96.3	96.8	97.1
≥ 2.5	67.3	73.8	77.2	81.0	85.0	86.4	89.6	90.8	92.1	92.9	95.0	95.2	96.9	97.2	97.9	98.7
≥ 1.5	67.3	73.8	77.2	81.0	85.0	86.4	89.6	90.8	92.1	92.9	95.0	95.2	97.0	97.4	98.2	100.0
≥ 0.75	67.3	73.8	77.2	81.0	85.0	86.4	89.6	90.8	92.1	92.9	95.0	95.2	97.0	97.4	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836
STATION

K I SAWYER AFB MI
STATION NAME

09-78
YEAR

NDV
NO. OF DAYS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	23.9	23.9	23.9	23.9	23.9	23.9	23.9	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
≥ 20000	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
≥ 18000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
≥ 16000	27.9	27.9	27.9	27.9	27.9	27.9	27.9	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
≥ 14000	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
≥ 12000	29.8	29.9	29.9	29.9	29.9	29.9	29.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 10000	31.8	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
≥ 9000	31.9	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 8000	31.8	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 7000	35.2	35.7	35.7	35.7	35.7	35.7	35.7	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
≥ 6000	36.1	36.8	37.0	37.0	37.1	37.2	37.2	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
≥ 5000	38.5	39.5	39.9	40.1	40.2	40.4	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
≥ 4500	39.6	40.7	41.1	41.4	41.5	41.6	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥ 4000	41.9	43.4	43.9	44.3	44.4	44.5	44.6	44.7	44.7	44.7	44.8	44.8	44.8	44.8	44.8	44.8
≥ 3500	44.5	46.0	46.6	47.0	47.2	47.3	47.5	47.6	47.6	47.6	47.8	47.8	47.8	47.8	47.8	47.8
≥ 3000	48.4	50.7	51.3	51.7	52.1	52.2	52.4	52.6	52.6	52.6	52.8	52.8	52.8	52.8	52.8	52.8
≥ 2500	55.3	58.1	58.9	59.9	60.8	60.9	61.6	62.2	62.2	62.3	62.5	62.5	62.5	62.5	62.5	62.5
≥ 2000	59.1	62.1	62.9	63.9	65.3	65.9	66.9	67.7	67.9	68.1	68.3	68.3	68.3	68.3	68.3	68.3
≥ 1800	60.4	63.8	64.7	65.8	67.3	68.0	69.0	69.8	70.0	70.2	70.5	70.5	70.5	70.5	70.5	70.5
≥ 1500	64.3	68.7	70.2	71.6	73.4	74.1	75.5	76.3	76.5	76.7	76.9	76.9	77.0	77.0	77.0	77.0
≥ 1200	66.3	71.5	73.2	74.8	76.9	77.7	79.0	80.0	80.3	80.5	80.7	80.7	80.8	80.8	80.8	80.8
≥ 1000	68.0	73.2	75.4	76.7	79.0	79.9	81.5	82.6	83.2	83.4	83.9	83.9	84.4	84.4	84.4	84.4
≥ 900	68.5	74.6	76.7	78.0	80.6	81.6	83.3	84.4	84.9	85.2	85.8	85.8	86.3	86.3	86.3	86.3
≥ 800	68.9	75.1	77.3	78.7	81.4	82.5	84.3	85.4	86.0	86.2	87.0	87.0	87.4	87.4	87.4	87.4
≥ 700	69.1	75.4	77.5	78.9	81.3	83.2	85.1	86.4	87.2	87.6	88.4	88.4	88.9	88.9	88.9	88.9
≥ 600	69.1	75.4	77.5	78.9	81.8	83.2	85.2	86.5	87.3	87.8	88.7	88.7	89.2	89.2	89.2	89.2
≥ 500	69.2	76.0	78.4	79.8	83.1	84.4	86.6	88.1	88.9	89.6	91.3	91.3	91.8	91.8	91.9	91.9
≥ 400	69.2	76.1	78.6	80.0	83.4	84.8	87.7	89.6	90.9	91.9	93.5	93.5	94.1	94.1	94.4	94.4
≥ 300	69.2	76.1	78.6	80.0	83.4	84.8	88.2	90.6	92.2	93.5	95.4	95.4	96.1	96.3	96.8	96.8
≥ 200	69.2	76.1	78.6	80.0	83.4	84.8	88.5	91.1	92.8	94.1	96.3	96.3	97.4	97.8	98.7	99.2
≥ 100	69.2	76.1	78.6	80.0	83.4	84.8	88.5	91.1	92.8	94.1	96.3	96.3	97.4	97.8	98.8	100.0
≥ 0	69.2	76.1	78.6	80.0	83.4	84.8	88.5	91.1	92.8	94.1	96.3	96.3	97.4	97.8	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 897

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836
STATION

K I SAWYER AFB MI
STATION NAME

69-76
YEAR

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	28.3	28.5	28.5	28.6	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
≥ 2600	31.3	31.4	31.4	31.5	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
IV 18000	31.5	31.7	31.7	31.8	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
IV 16000	31.9	32.0	32.0	32.1	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
IV 14000	33.3	33.4	33.5	33.6	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
IV 12000	34.7	34.9	35.0	35.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
IV 10000	36.8	37.2	37.3	37.4	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
IV 9000	37.1	37.4	37.5	37.6	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
IV 8000	38.7	39.1	39.2	39.3	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
IV 7000	39.6	40.0	40.1	40.2	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
IV 6000	40.6	41.1	41.3	41.5	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
IV 5000	42.5	43.3	43.5	43.8	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
IV 4500	44.2	45.0	45.2	45.5	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 4000	46.2	47.3	47.5	48.0	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
IV 3500	48.2	49.3	49.6	50.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 3000	50.8	52.7	53.1	53.6	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
IV 2500	57.6	59.8	61.0	61.6	63.5	63.6	64.2	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IV 2000	61.5	63.8	65.5	66.4	68.8	69.0	69.6	69.8	70.3	70.5	70.5	70.5	70.5	70.5	70.5	70.5
IV 1800	62.8	65.2	67.0	67.9	70.2	70.4	71.3	71.4	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2
IV 1500	66.0	69.0	71.0	71.9	74.6	74.9	75.9	76.2	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 1200	68.5	72.0	74.3	75.2	78.6	78.9	80.2	80.6	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4
IV 1000	69.3	72.9	75.6	76.5	79.9	80.4	82.0	82.5	83.4	83.7	83.8	83.8	83.8	83.8	83.8	83.8
IV 900	69.8	73.9	76.6	77.6	81.0	81.7	83.5	83.9	84.8	85.2	85.3	85.3	85.3	85.3	85.3	85.3
IV 800	69.8	73.9	76.6	77.7	81.5	82.1	83.9	84.5	85.4	85.7	85.9	85.9	85.9	85.9	85.9	85.9
IV 700	69.8	73.9	76.6	77.9	82.1	82.8	84.6	85.3	86.3	86.6	86.8	86.8	86.8	86.8	86.8	86.8
IV 600	69.8	74.0	76.8	78.2	82.8	83.5	85.5	86.2	87.4	87.7	87.9	87.9	87.9	87.9	88.1	88.1
IV 500	69.8	74.0	76.8	78.2	82.9	83.6	86.0	87.3	88.7	89.2	90.3	90.3	90.3	90.3	90.6	90.6
IV 400	69.8	74.0	77.0	78.5	83.6	84.3	86.8	88.3	90.1	90.7	91.9	91.9	92.0	92.1	92.5	92.5
IV 300	69.8	74.3	77.5	78.9	84.2	84.8	87.7	89.7	91.9	93.1	95.0	95.0	95.3	95.5	96.2	96.2
IV 200	69.9	74.4	77.6	79.0	84.3	84.9	87.9	90.2	92.4	93.8	96.2	96.2	96.5	96.9	97.7	97.9
IV 100	69.9	74.4	77.6	79.0	84.3	84.9	88.1	90.3	92.5	93.9	96.4	96.5	96.9	97.4	98.7	99.8
IV 0	69.9	74.4	77.6	79.0	84.3	84.9	88.1	90.3	92.5	93.9	96.4	96.5	96.9	97.4	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 896

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

9-78

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS UTC

CEILING FEET	VISIBLE IN STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	28.0	28.7	28.8	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.3	29.3	29.3	29.3
≥ 20000	30.8	31.4	31.5	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.0	32.1	32.1	32.1	32.1
IV 18000	31.1	31.8	31.9	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.4	32.4	32.4	32.4
IV 16000	31.1	31.9	32.0	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.4	32.6	32.6	32.6	32.6
IV 14000	32.4	33.2	33.4	33.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.9	34.0	34.0	34.0	34.0
IV 12000	32.9	33.8	34.0	34.2	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.4	34.6	34.6	34.6	34.6
IV 10000	35.0	36.0	36.3	36.6	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.8	36.9	36.9	36.9	36.9
IV 9000	35.2	36.3	36.7	36.9	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.1	37.2	37.2	37.2	37.2
IV 8000	36.3	37.5	37.8	38.0	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.4	38.5	38.5	38.5	38.5
IV 7000	36.9	38.0	38.4	38.6	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.9	39.0	39.0	39.0	39.0
IV 6000	37.2	38.6	38.9	39.1	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.8	39.9	39.9	39.9	39.9
IV 5000	39.7	41.4	41.8	42.0	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.9	43.0	43.0	43.0	43.0
IV 4500	42.0	43.7	44.1	44.4	45.3	45.3	45.4	45.4	45.4	45.4	45.4	45.5	45.6	45.6	45.6	45.6
IV 4000	44.7	46.6	47.0	47.4	48.6	48.6	48.7	48.7	48.7	48.7	48.7	48.8	48.9	48.9	48.9	48.9
IV 3500	45.7	47.8	48.3	48.6	49.9	49.9	50.1	50.1	50.1	50.1	50.1	50.2	50.3	50.3	50.3	50.3
IV 3000	50.4	52.6	53.3	53.6	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.4	55.5	55.5	55.5	55.5
IV 2500	55.4	58.3	59.6	60.3	62.3	62.9	63.0	63.0	63.0	63.0	63.0	63.1	63.2	63.2	63.2	63.2
IV 2000	59.9	63.2	65.0	65.8	68.1	68.7	69.9	69.9	69.9	69.9	69.9	70.0	70.1	70.1	70.1	70.1
IV 1800	61.6	65.1	66.9	67.7	70.3	70.9	72.2	72.2	72.4	72.4	72.4	72.5	72.6	72.6	72.6	72.6
IV 1500	64.3	68.7	70.6	71.5	74.6	75.3	76.8	76.8	77.0	77.0	77.0	77.1	77.3	77.3	77.3	77.3
IV 1200	65.3	70.8	72.8	73.9	77.3	77.9	79.6	79.7	79.9	79.9	79.9	80.0	80.2	80.2	80.2	80.2
IV 1000	67.1	71.8	73.9	75.1	78.8	79.5	81.4	81.5	82.1	82.3	82.4	82.5	82.5	82.5	82.5	82.5
IV 900	67.7	72.7	74.9	76.1	79.9	80.6	82.5	82.6	83.2	83.4	83.5	83.6	83.6	83.6	83.6	83.6
IV 800	67.8	72.9	75.3	76.6	80.4	81.0	83.1	83.7	84.3	84.5	84.6	84.7	84.7	84.7	84.7	84.7
IV 700	68.0	73.1	75.6	76.9	80.8	81.5	83.5	84.3	84.8	85.1	85.2	85.3	85.4	85.4	85.5	85.5
IV 600	68.1	73.2	75.7	77.0	81.5	82.2	84.4	85.5	86.1	86.3	86.5	86.6	86.7	86.8	87.1	87.1
IV 500	68.2	73.7	76.3	77.6	82.5	83.3	86.3	87.7	88.4	89.0	89.5	89.6	90.0	90.2	90.5	90.5
IV 400	68.5	73.9	76.5	77.8	83.1	84.3	88.1	90.0	90.9	91.5	92.1	92.2	92.5	92.8	93.3	93.4
IV 300	68.5	73.9	76.7	78.3	83.5	84.8	89.2	91.1	92.5	93.6	94.2	94.2	94.8	95.0	95.7	95.8
IV 200	68.6	74.0	76.8	78.4	83.6	84.9	89.4	91.5	93.3	94.5	96.0	96.1	96.7	97.0	97.7	97.9
IV 100	68.6	74.0	76.8	78.4	83.6	84.9	89.4	91.6	93.4	94.8	96.7	96.8	97.3	97.9	98.9	99.7
IV 0	68.6	74.0	76.8	78.4	83.6	84.9	89.4	91.6	93.4	94.8	96.7	96.8	97.3	98.0	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 897

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836
STATION

K I SAWYER AFB MI
STATION NAME

69-78
YEAR

NDV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
MONTHS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	25.8	26.4	26.7	26.9	27.2	27.2	27.2	27.3	27.4	27.4	27.5	27.5	27.6	27.6	27.6	27.7
≥ 20000	28.2	28.8	29.1	29.3	29.5	29.6	29.6	29.7	29.7	29.8	29.9	29.9	30.0	30.0	30.0	30.0
IV 18000	28.4	29.0	29.4	29.5	29.8	29.8	29.9	30.0	30.0	30.0	30.2	30.2	30.3	30.3	30.3	30.3
IV 16000	28.6	29.2	29.5	29.7	30.0	30.0	30.0	30.1	30.2	30.2	30.3	30.3	30.4	30.4	30.4	30.5
IV 14000	29.2	29.8	30.2	30.4	30.7	30.7	30.7	30.8	30.9	30.9	31.0	31.0	31.1	31.1	31.1	31.2
IV 12000	30.3	31.0	31.3	31.5	31.8	31.8	31.9	32.0	32.0	32.0	32.1	32.2	32.2	32.2	32.3	32.3
IV 10000	31.8	32.5	32.9	33.1	33.4	33.4	33.5	33.6	33.6	33.6	33.7	33.8	33.8	33.8	33.9	33.9
IV 9000	32.0	32.8	33.2	33.4	33.7	33.7	33.8	33.9	33.9	33.9	34.1	34.1	34.1	34.1	34.2	34.2
IV 8000	33.6	34.4	34.8	35.1	35.4	35.4	35.4	35.6	35.6	35.6	35.7	35.8	35.8	35.8	35.9	36.0
IV 7000	34.7	35.5	35.9	36.2	36.5	36.5	36.6	36.7	36.7	36.8	36.9	36.9	37.0	37.0	37.0	37.1
IV 6000	35.5	36.4	36.8	37.1	37.6	37.6	37.7	37.8	37.9	37.9	38.1	38.1	38.2	38.2	38.2	38.3
IV 5000	37.9	39.1	39.6	40.0	40.6	40.7	40.8	40.9	40.9	41.0	41.1	41.1	41.2	41.2	41.3	41.4
IV 4500	39.4	40.7	41.2	41.6	42.3	42.3	42.4	42.6	42.6	42.7	42.8	42.8	42.9	42.9	43.0	43.1
IV 4000	42.1	43.7	44.4	44.9	45.8	45.9	46.1	46.2	46.3	46.3	46.5	46.5	46.6	46.6	46.7	46.7
IV 3500	43.7	45.5	46.2	46.7	47.8	47.8	48.1	48.3	48.4	48.4	48.6	48.6	48.7	48.7	48.8	48.8
IV 3000	47.3	49.5	50.4	51.1	52.4	52.4	52.8	53.1	53.2	53.3	53.4	53.5	53.6	53.6	53.6	53.7
IV 2500	53.2	55.9	57.1	58.1	59.8	60.0	60.6	61.0	61.1	61.3	61.5	61.5	61.6	61.6	61.6	61.7
IV 2000	57.8	60.9	62.3	63.5	65.6	65.9	67.0	67.5	67.7	67.9	68.1	68.1	68.3	68.3	68.4	68.4
IV 1800	59.3	62.5	64.0	65.2	67.4	67.7	68.9	69.4	69.7	69.8	70.1	70.1	70.2	70.2	70.3	70.4
IV 1500	62.9	66.7	68.4	69.8	72.3	72.7	74.1	74.7	75.0	75.2	75.4	75.4	75.6	75.6	75.6	75.7
IV 1200	65.0	69.0	70.9	72.4	75.4	75.8	77.4	78.1	78.5	78.6	78.9	78.9	79.1	79.1	79.1	79.2
IV 1000	65.9	70.2	72.1	73.8	77.0	77.5	79.2	80.0	80.7	81.0	81.3	81.3	81.6	81.6	81.6	81.7
IV 900	66.4	71.0	73.1	74.7	78.1	78.8	80.6	81.4	82.1	82.4	82.8	82.8	83.1	83.1	83.1	83.2
IV 800	66.6	71.4	73.5	75.3	78.8	79.5	81.4	82.4	83.1	83.5	84.0	84.0	84.3	84.3	84.3	84.4
IV 700	66.9	71.7	74.0	75.8	79.6	80.4	82.4	83.5	84.3	84.7	85.2	85.3	85.5	85.5	85.7	85.7
IV 600	66.9	71.9	74.3	76.2	80.4	81.2	83.3	84.6	85.5	86.0	86.6	86.6	86.7	87.0	87.0	87.2
IV 500	67.1	72.5	75.0	77.0	81.5	82.5	85.0	86.6	87.7	88.5	89.4	89.4	90.0	90.1	90.3	90.4
IV 400	67.1	72.5	75.2	77.2	82.0	83.2	86.1	88.0	89.4	90.3	91.3	91.4	92.0	92.1	92.4	92.5
IV 300	67.2	72.7	75.4	77.5	82.4	83.5	86.8	89.2	91.0	92.3	93.7	93.8	94.7	94.8	95.3	95.5
IV 200	67.2	72.7	75.5	77.6	82.5	83.6	87.1	89.7	91.6	93.2	95.1	95.3	96.6	96.8	97.5	98.0
IV 100	67.2	72.7	75.5	77.6	82.5	83.6	87.1	89.7	91.7	93.4	95.5	95.7	97.1	97.6	98.5	99.7
IV 0	67.2	72.7	75.5	77.6	82.5	83.6	87.1	89.7	91.7	93.4	95.5	95.7	97.2	97.6	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 7189

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836
STATION

K I SAWYER AFB MI
STATION NAME

68-77
YEAR

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
TIME

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥0
NO CEILING	22.3	23.7	24.2	24.3	24.3	24.5	24.8	24.9	25.1	25.2	25.2	25.2	25.2	25.4	25.4	25.4
≥ 20000	23.3	24.7	25.2	25.3	25.3	25.5	25.7	25.8	26.0	26.2	26.2	26.2	26.2	26.4	26.4	26.5
IV 18000	23.3	24.7	25.2	25.3	25.3	25.5	25.7	25.8	26.0	26.2	26.2	26.2	26.2	26.4	26.4	26.5
IV 16000	23.4	24.8	25.3	25.4	25.4	25.6	25.8	25.9	26.2	26.3	26.3	26.3	26.3	26.5	26.5	26.6
IV 14000	23.6	25.0	25.5	25.6	25.6	25.8	26.0	26.2	26.4	26.5	26.5	26.5	26.5	26.7	26.7	26.8
IV 12000	24.5	25.9	26.5	26.6	26.6	26.8	27.0	27.1	27.3	27.4	27.4	27.4	27.4	27.7	27.7	27.8
IV 10000	26.6	28.1	28.6	28.7	28.7	29.0	29.2	29.3	29.5	29.6	29.6	29.6	29.6	29.8	29.8	29.9
IV 9000	27.3	28.8	29.6	29.7	29.7	29.9	30.1	30.2	30.5	30.6	30.6	30.6	30.6	30.8	30.8	30.9
IV 8000	27.8	29.6	30.4	30.5	30.5	30.7	30.9	31.0	31.2	31.3	31.3	31.3	31.3	31.5	31.5	31.6
IV 7000	28.7	30.6	31.3	31.4	31.4	31.6	31.9	32.0	32.2	32.3	32.3	32.3	32.3	32.5	32.5	32.6
IV 6000	29.3	31.1	31.9	32.0	32.2	32.4	32.6	32.7	32.9	33.0	33.0	33.0	33.0	33.3	33.3	33.4
IV 5000	31.5	33.7	34.7	35.0	35.4	35.6	35.8	36.0	36.2	36.3	36.3	36.3	36.3	36.5	36.5	36.6
IV 4500	32.3	34.6	35.5	35.8	36.4	36.6	36.8	36.9	37.1	37.2	37.2	37.2	37.2	37.5	37.5	37.6
IV 4000	34.0	36.7	37.8	38.2	38.8	39.0	39.3	39.5	39.7	39.8	39.8	39.8	39.8	40.0	40.0	40.2
IV 3500	35.3	38.5	39.6	40.0	40.6	40.8	41.1	41.3	41.6	41.7	41.7	41.7	41.7	41.9	41.9	42.0
IV 3000	38.5	42.2	43.5	44.0	44.9	45.2	45.5	45.7	46.0	46.1	46.1	46.1	46.1	46.3	46.3	46.4
IV 2500	41.0	45.7	47.7	48.7	49.7	50.2	50.7	51.0	51.2	51.3	51.3	51.3	51.3	51.7	51.7	51.8
IV 2000	45.6	51.7	54.0	55.2	56.6	57.3	58.2	58.7	59.0	59.2	59.2	59.2	59.2	59.5	59.5	59.6
IV 1800	47.4	53.4	55.8	57.3	58.8	59.5	60.6	61.0	61.4	61.6	61.6	61.6	61.6	61.9	61.9	62.0
IV 1500	50.8	57.3	60.2	62.0	64.3	65.4	67.4	68.1	68.6	68.8	68.9	68.9	68.9	69.2	69.2	69.3
IV 1200	53.4	60.5	63.9	65.8	68.1	69.3	71.4	72.1	72.8	73.0	73.1	73.1	73.1	73.4	73.4	73.5
IV 1000	55.5	63.4	67.0	69.0	71.7	72.9	75.3	76.1	77.0	77.2	77.6	77.6	77.6	77.9	77.9	78.0
IV 900	56.1	64.5	68.2	70.4	73.2	74.5	77.3	78.1	79.1	79.4	80.0	80.1	80.4	80.4	80.4	80.5
IV 800	56.4	64.9	68.8	71.0	74.1	75.5	78.3	79.2	81.1	81.5	82.3	82.5	82.8	82.8	82.8	82.9
IV 700	57.4	66.1	70.1	72.4	75.5	76.9	80.0	81.2	83.1	83.6	84.9	85.0	85.5	85.5	85.5	85.6
IV 600	57.6	66.7	71.2	73.7	77.3	78.7	81.9	83.5	85.7	86.4	87.7	87.8	88.3	88.3	88.3	88.4
IV 500	58.1	67.3	71.8	74.8	78.6	80.1	83.4	85.0	87.4	88.7	90.2	90.4	91.0	91.0	91.0	91.1
IV 400	58.2	67.6	72.2	75.3	79.2	81.1	84.9	86.8	89.2	90.6	92.4	92.7	93.2	93.4	93.4	93.5
IV 300	58.2	67.7	72.3	75.5	79.9	82.2	86.2	88.2	91.1	92.9	95.0	95.4	96.2	96.4	96.4	96.6
IV 200	58.2	67.7	72.3	75.5	79.9	82.3	86.7	88.8	92.0	94.1	96.4	96.8	98.2	98.5	98.6	99.1
IV 100	58.2	67.7	72.3	75.5	79.9	82.3	86.7	88.8	92.0	94.1	96.4	96.8	98.3	98.7	99.1	99.9
IV 0	58.2	67.7	72.3	75.5	79.9	82.3	86.7	88.8	92.0	94.1	96.4	96.8	98.3	98.7	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS

929

USAF ETAC

FORM
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835 K I SAWYER AFB MI

8-77

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	22.4	23.0	23.4	23.9	24.0	24.0	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.3	24.3	24.4
≥ 20000	23.0	23.7	24.1	24.5	24.6	24.6	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.9	24.9	25.1
≥ 18000	23.2	23.9	24.3	24.7	24.8	24.8	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.2	25.2	25.3
≥ 16000	23.2	23.9	24.3	24.7	24.8	24.8	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.2	25.2	25.3
≥ 14000	23.2	23.9	24.3	24.7	24.8	24.8	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.2	25.2	25.3
≥ 12000	23.7	24.3	24.7	25.2	25.3	25.3	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.6	25.6	25.7
≥ 10000	24.9	25.7	26.1	26.6	26.7	26.7	26.8	26.8	26.8	26.8	26.8	26.8	26.8	27.0	27.0	27.1
≥ 9000	26.0	26.8	27.5	28.0	28.1	28.1	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.4	28.4	28.5
≥ 8000	26.7	27.5	28.3	28.7	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.1	29.1	29.2
≥ 7000	27.2	28.1	28.8	29.2	29.4	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.7	29.7	29.8
≥ 6000	28.5	29.5	30.2	30.6	30.8	30.8	30.9	30.9	30.9	30.9	30.9	30.9	30.9	31.1	31.1	31.2
≥ 5000	31.7	33.2	34.4	34.9	35.2	35.2	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.5	35.5	35.6
≥ 4500	32.4	34.3	35.7	36.2	36.5	36.5	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.8	36.8	36.9
≥ 4000	34.1	36.7	38.3	38.8	39.0	39.0	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.4	39.4	39.5
≥ 3500	34.7	37.5	39.1	39.8	40.0	40.0	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.4	40.4	40.5
≥ 3000	37.1	40.2	42.0	42.7	43.4	43.4	43.9	43.9	43.9	44.0	44.0	44.0	44.0	44.2	44.2	44.3
≥ 2500	41.8	46.7	48.9	49.6	50.6	50.6	51.2	51.3	51.3	51.5	51.5	51.5	51.5	51.7	51.7	51.8
≥ 2000	45.2	50.4	52.8	53.7	55.3	55.5	56.7	56.9	56.9	57.2	57.2	57.2	57.2	57.4	57.4	57.5
≥ 1800	46.9	52.2	54.5	56.0	57.6	57.8	59.0	59.4	59.4	59.7	59.7	59.7	59.7	59.9	59.9	60.0
≥ 1500	51.4	56.8	59.9	61.8	63.5	63.9	66.0	67.0	67.5	67.8	67.8	67.8	67.8	68.1	68.1	68.2
≥ 1200	53.4	59.0	62.4	64.4	67.1	67.5	69.9	70.9	71.5	71.8	71.8	71.8	71.8	72.0	72.0	72.2
≥ 1000	55.3	61.7	65.8	67.8	70.8	71.5	74.3	75.4	76.1	76.5	76.8	76.8	76.8	77.0	77.0	77.1
≥ 900	56.1	62.9	67.1	69.2	72.4	73.1	76.1	77.5	78.6	78.9	79.5	79.5	79.5	79.7	79.7	79.8
≥ 800	56.2	63.0	67.3	69.5	72.7	73.5	76.7	78.3	79.4	79.8	80.6	80.6	80.6	81.0	81.0	81.1
≥ 700	56.3	63.5	67.8	70.0	73.4	74.3	77.7	79.7	80.9	81.4	82.6	82.6	82.6	83.1	83.1	83.2
≥ 600	56.7	64.3	68.9	71.2	74.9	75.8	80.0	82.2	83.4	84.1	85.3	85.3	85.3	85.8	85.8	85.9
≥ 500	56.9	64.9	69.6	72.5	76.6	77.7	82.5	84.6	86.0	86.7	88.2	88.2	88.2	88.9	88.9	89.0
≥ 400	57.0	65.4	70.0	73.0	77.7	79.2	84.6	86.9	88.3	89.1	91.2	91.2	91.2	91.9	91.9	92.0
≥ 300	57.0	65.6	70.3	73.3	78.3	80.2	86.1	88.4	89.9	90.8	92.9	92.9	92.9	93.9	94.2	94.3
≥ 200	57.0	65.6	70.3	73.3	78.3	80.2	86.2	88.9	90.8	92.0	94.4	94.5	94.5	96.9	97.4	98.0
≥ 100	57.0	65.6	70.3	73.3	78.3	80.2	86.2	88.9	90.8	92.2	94.8	94.9	94.9	97.3	98.0	99.0
≥ 0	57.0	65.6	70.3	73.3	78.3	80.2	86.2	88.9	90.8	92.2	94.8	94.9	94.9	97.3	98.0	99.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94835

K I SAWYER AFB MI

68-77

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	23.1	24.0	24.1	24.1	24.1	24.1	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.6	24.6	24.8
≥ 20000	23.9	24.7	24.8	24.8	24.9	24.9	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.5	25.5	25.7
IV 18000	24.2	25.1	25.2	25.2	25.6	25.6	25.9	25.9	25.9	25.9	25.9	25.9	25.9	26.1	26.1	26.3
IV 16000	24.2	25.1	25.2	25.2	25.6	25.6	25.9	25.9	25.9	25.9	25.9	25.9	25.9	26.1	26.1	26.3
IV 14000	24.2	25.1	25.2	25.2	25.6	25.6	25.9	25.9	25.9	25.9	25.9	25.9	25.9	26.1	26.1	26.3
IV 12000	24.5	25.5	25.7	25.7	26.1	26.1	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.7	26.7	26.9
IV 10000	25.8	27.0	27.2	27.2	27.6	27.6	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.2	28.2	28.4
IV 9000	26.1	27.3	27.7	27.7	28.2	28.2	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.7	28.7	28.9
IV 8000	26.7	27.8	28.3	28.3	28.7	28.7	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.2	29.2	29.5
IV 7000	27.2	28.4	28.8	28.8	29.2	29.2	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.8	29.8	30.0
IV 6000	28.0	29.4	29.8	29.8	30.2	30.2	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.8	30.8	31.0
IV 5000	31.6	33.8	34.3	34.4	35.1	35.1	35.4	35.6	35.8	35.8	35.8	35.8	35.8	36.0	36.0	36.2
IV 4500	32.3	34.6	35.2	35.4	36.2	36.2	36.6	36.8	37.0	37.0	37.0	37.0	37.0	37.2	37.2	37.4
IV 4000	33.5	36.7	37.4	37.6	38.7	38.7	39.1	39.5	39.7	39.7	39.7	39.7	39.7	39.9	39.9	40.1
IV 3500	34.3	37.8	38.7	38.9	40.0	40.0	40.4	40.8	41.0	41.0	41.0	41.0	41.0	41.2	41.2	41.4
IV 3000	36.3	40.5	41.4	41.8	43.2	43.2	43.7	44.1	44.3	44.3	44.3	44.3	44.3	44.5	44.5	44.7
IV 2500	40.4	46.2	47.2	48.1	50.1	50.5	51.0	51.4	51.6	51.6	51.6	51.6	51.6	51.8	51.8	52.0
IV 2000	43.4	50.0	51.6	52.7	55.4	55.9	57.0	57.7	58.0	58.1	58.2	58.2	58.2	58.4	58.4	58.6
IV 1800	44.7	51.4	53.2	54.4	57.2	57.8	59.0	59.9	60.1	60.2	60.3	60.3	60.3	60.5	60.5	60.8
IV 1500	48.0	55.2	57.1	58.7	61.5	62.5	64.4	66.0	66.6	66.7	66.7	66.7	66.8	67.0	67.0	67.2
IV 1200	49.6	57.1	59.2	61.3	64.4	65.4	67.3	69.0	69.8	70.0	70.0	70.0	70.2	70.4	70.5	70.8
IV 1000	51.4	59.6	62.2	64.8	68.1	69.1	71.5	73.2	74.0	74.3	74.5	74.5	74.5	74.7	74.8	75.1
IV 900	51.8	61.0	63.7	66.7	70.0	71.1	73.5	75.5	76.2	76.7	77.1	77.1	77.1	77.3	77.4	77.6
IV 800	52.0	61.3	64.3	67.5	71.2	72.5	75.3	77.2	78.4	78.8	79.6	79.6	79.6	79.9	79.9	80.1
IV 700	52.4	61.8	65.5	68.9	72.8	74.2	77.6	79.7	80.9	81.3	82.0	82.0	82.0	82.3	82.4	82.6
IV 600	52.9	62.7	66.7	70.2	74.2	75.9	79.7	81.7	82.9	83.3	84.2	84.2	84.2	84.4	84.5	84.7
IV 500	53.2	63.0	67.4	71.1	75.5	77.8	82.2	84.3	85.5	85.9	87.3	87.3	87.3	88.0	88.1	88.6
IV 400	53.5	63.4	68.0	71.9	77.1	79.5	84.5	86.8	88.0	88.7	90.4	90.5	90.5	91.3	91.4	91.9
IV 300	53.5	63.7	68.2	72.3	77.6	80.2	85.6	87.8	89.1	90.2	92.6	92.9	92.9	94.1	94.2	94.8
IV 200	53.5	63.7	68.2	72.3	77.8	80.5	86.0	88.6	90.5	91.7	94.6	94.9	94.9	96.8	97.2	98.4
IV 100	53.5	63.7	68.2	72.3	77.8	80.5	86.0	88.6	90.5	91.7	94.9	95.4	95.4	97.3	97.8	99.0
IV 0	53.5	63.7	68.2	72.3	77.8	80.5	86.0	88.6	90.5	91.7	94.9	95.4	95.4	97.3	97.8	99.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB HI

08-77

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2
NO CEILING	18.7	19.8	20.1	20.2	20.2	20.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
≥ 20000	19.8	21.0	21.3	21.4	21.4	21.4	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
≥ 18000	20.2	21.5	21.9	22.0	22.0	22.0	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
≥ 16000	20.7	22.0	22.3	22.4	22.4	22.5	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
≥ 14000	21.5	22.8	23.1	23.3	23.3	23.4	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
≥ 12000	23.6	25.0	25.4	25.6	25.7	25.8	26.0	26.0	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
≥ 10000	24.1	25.5	25.9	26.2	26.3	26.4	26.6	26.6	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
≥ 9000	24.7	26.0	26.6	26.8	26.9	27.0	27.2	27.2	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
≥ 8000	25.6	27.2	27.8	28.1	28.2	28.3	28.5	28.5	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
≥ 7000	26.5	28.3	29.0	29.3	29.4	29.5	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
≥ 6000	26.9	29.0	29.6	29.9	30.0	30.1	30.4	30.4	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
≥ 5000	28.8	31.0	31.8	32.1	32.3	32.4	32.6	32.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
≥ 4500	29.7	32.0	32.7	33.2	33.4	33.5	33.7	33.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
≥ 4000	31.0	33.4	34.4	34.9	35.2	35.3	35.6	36.0	36.1	36.2	36.4	36.4	36.4	36.4	36.4	36.4
≥ 3500	32.4	35.5	36.6	37.1	37.6	37.7	38.1	38.4	38.5	38.6	39.0	39.0	39.0	39.0	39.0	39.0
≥ 3000	33.9	38.1	39.4	40.0	41.1	41.2	41.7	42.0	42.1	42.2	42.5	42.5	42.7	42.7	42.7	42.7
≥ 2500	38.4	43.8	45.2	46.1	47.8	48.0	48.9	49.3	49.5	49.7	50.1	50.1	50.3	50.3	50.3	50.3
≥ 2000	42.3	48.8	50.4	51.7	53.9	54.4	55.3	56.1	56.7	57.2	57.8	57.8	58.1	58.1	58.1	58.1
≥ 1800	43.1	49.6	51.3	52.7	55.3	55.8	56.7	57.5	58.1	58.6	59.3	59.3	59.6	59.6	59.6	59.6
≥ 1500	44.9	51.8	53.8	55.3	58.4	58.9	60.4	61.5	62.3	63.2	63.9	63.9	64.3	64.3	64.4	64.4
≥ 1200	47.0	54.9	57.3	59.1	62.8	63.4	64.9	66.3	67.3	68.2	69.4	69.5	69.9	69.9	70.1	70.1
≥ 1000	48.1	56.4	59.2	61.4	65.0	65.7	67.2	68.8	70.2	71.5	72.8	72.9	73.3	73.4	73.6	73.6
≥ 900	48.3	57.3	60.4	62.6	66.6	67.3	69.1	70.7	72.2	73.5	74.9	75.0	75.6	75.7	75.9	75.9
≥ 800	48.3	57.6	60.8	63.1	67.2	67.9	70.0	71.9	73.5	75.2	76.7	76.9	77.8	77.9	78.1	78.1
≥ 700	48.5	58.1	61.7	64.2	68.7	69.8	71.9	74.1	75.8	77.5	79.3	79.5	80.6	80.7	80.9	80.9
≥ 600	48.8	58.9	62.6	65.1	69.8	70.9	73.4	75.7	77.6	79.7	81.6	81.8	82.5	83.0	83.2	83.2
≥ 500	49.1	59.5	63.4	66.0	70.9	72.8	75.8	78.6	80.6	82.7	85.3	85.6	86.7	86.8	87.0	87.1
≥ 400	49.1	59.7	63.6	66.2	71.4	73.8	77.6	80.8	83.3	85.9	88.8	89.2	90.3	90.5	90.7	91.0
≥ 300	49.2	59.8	63.8	66.4	71.7	74.4	78.5	82.0	85.1	88.2	92.0	92.6	94.4	94.8	95.0	95.3
≥ 200	49.2	59.8	63.8	66.4	71.7	74.4	78.5	82.0	85.3	88.3	92.8	93.5	96.3	97.4	98.4	98.8
≥ 100	49.2	59.8	63.8	66.4	71.7	74.4	78.5	82.0	85.3	88.3	92.8	93.5	96.4	97.7	99.0	100.0
≥ 0	49.2	59.8	63.8	66.4	71.7	74.4	78.5	82.0	85.3	88.3	92.8	93.5	96.4	97.7	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

8-77

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS.

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	19.3	19.4	19.5	19.5	19.5	19.5	19.5	19.6	19.6	19.6	19.7	19.7	19.7	19.7	19.7	19.7
≥ 20000	21.6	21.9	22.0	22.0	22.0	22.0	22.0	22.1	22.1	22.1	22.2	22.2	22.2	22.2	22.2	22.2
≥ 18000	22.5	22.7	22.8	22.8	22.8	22.8	22.8	22.9	22.9	22.9	23.0	23.0	23.0	23.0	23.0	23.0
≥ 16000	23.1	23.4	23.5	23.5	23.5	23.5	23.5	23.6	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.7
≥ 14000	24.1	24.3	24.4	24.4	24.4	24.4	24.4	24.5	24.5	24.5	24.7	24.7	24.7	24.7	24.7	24.7
≥ 12000	25.7	26.0	26.2	26.2	26.2	26.2	26.2	26.3	26.3	26.3	26.4	26.4	26.4	26.4	26.4	26.4
≥ 10000	26.7	27.1	27.2	27.2	27.2	27.2	27.2	27.3	27.3	27.3	27.4	27.4	27.4	27.4	27.4	27.4
≥ 9000	27.6	28.0	28.1	28.1	28.1	28.1	28.1	28.2	28.2	28.2	28.3	28.3	28.3	28.3	28.3	28.3
IV 8000	29.1	29.5	29.7	29.7	29.7	29.7	29.7	29.8	29.8	29.8	29.9	29.9	29.9	29.9	29.9	29.9
IV 7000	29.8	30.2	30.5	30.5	30.5	30.5	30.5	30.6	30.6	30.6	30.7	30.7	30.7	30.7	30.7	30.7
IV 6000	30.6	31.0	31.2	31.2	31.2	31.2	31.2	31.3	31.3	31.3	31.6	31.5	31.6	31.6	31.8	31.8
IV 5000	32.3	32.8	33.3	33.3	33.4	33.4	33.4	33.6	33.7	33.7	34.0	34.0	34.0	34.0	34.1	34.1
IV 4500	32.7	33.3	33.7	33.7	33.8	33.8	34.0	34.1	34.1	34.1	34.4	34.4	34.4	34.4	34.6	34.6
IV 4000	34.6	35.2	35.8	36.0	36.1	36.1	36.4	36.5	36.5	36.6	36.9	36.9	36.9	36.9	37.0	37.0
IV 3500	35.3	36.2	36.8	36.9	37.5	37.5	37.9	38.1	38.1	38.2	38.5	38.5	38.5	38.5	38.6	38.6
IV 3000	39.2	40.9	41.6	41.8	42.5	42.7	43.2	43.5	43.5	43.6	44.0	44.0	44.0	44.0	44.1	44.1
IV 2500	44.0	46.9	47.9	48.2	49.7	50.1	50.6	50.9	51.0	51.1	51.6	51.6	51.6	51.6	51.7	51.7
IV 2000	47.3	51.3	52.7	53.5	55.9	56.5	57.4	58.1	58.7	59.0	59.6	59.6	59.6	59.6	60.1	60.1
IV 1800	48.9	53.8	55.2	56.0	58.4	59.1	60.2	60.9	61.5	61.8	62.4	62.4	62.4	62.4	62.9	62.9
IV 1500	50.7	57.3	58.9	59.7	63.0	63.8	65.2	66.3	67.3	67.7	68.8	68.8	68.8	68.8	69.2	69.2
IV 1200	51.8	59.1	61.2	62.4	66.0	67.0	68.5	69.5	70.8	71.6	72.7	72.7	72.7	72.7	73.1	73.1
IV 1000	52.5	60.6	63.2	64.6	68.2	69.3	70.9	72.2	73.6	74.7	76.4	76.4	76.4	76.5	77.0	77.0
IV 900	53.0	62.0	64.6	66.4	70.3	71.7	73.3	74.7	76.2	77.3	79.1	79.2	79.3	79.3	79.8	79.8
IV 800	53.1	62.4	65.1	67.2	71.2	72.6	74.2	75.8	77.3	78.5	80.4	80.6	80.8	80.8	81.3	81.3
IV 700	53.4	63.1	65.8	67.8	72.0	73.5	75.3	77.4	79.0	80.4	82.6	82.8	83.0	83.0	83.4	83.4
IV 600	53.6	63.5	66.2	68.2	72.7	74.5	76.4	78.8	80.5	82.1	84.5	84.7	85.0	85.0	85.5	85.5
IV 500	53.8	64.3	67.2	69.2	74.6	76.9	78.6	81.4	83.3	85.5	87.9	88.3	89.0	89.2	89.8	89.8
IV 400	53.8	64.4	67.3	69.3	75.2	77.5	79.7	82.6	84.7	87.1	90.0	90.5	91.4	91.8	92.6	92.6
IV 300	53.8	64.4	67.3	69.3	75.3	77.6	80.0	83.6	86.0	88.9	92.0	92.7	94.2	95.0	95.9	95.9
IV 200	53.8	64.4	67.3	69.3	75.3	77.6	80.0	83.6	86.0	88.9	92.9	94.0	96.0	97.0	98.4	98.6
IV 100	53.8	64.4	67.4	69.4	75.5	77.7	80.1	83.7	86.3	89.5	93.0	94.1	96.1	97.4	99.1	100.0
IV 0	53.8	64.4	67.4	69.4	75.5	77.7	80.1	83.7	86.3	89.5	93.0	94.1	96.1	97.4	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS

929

USAF ETAC

FORM
AUG 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

8-77

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING	21.4	21.6	21.6	21.6	21.7	21.7	21.7	21.7	21.7	21.8	21.8	21.8	21.8	21.8	21.8	21.8
≥ 20000	23.5	23.8	23.8	23.8	23.9	23.9	23.9	23.9	23.9	24.0	24.0	24.0	24.0	24.0	24.0	24.0
≥ 18000	24.0	24.2	24.2	24.2	24.3	24.3	24.3	24.3	24.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4
≥ 16000	24.3	24.5	24.5	24.5	24.6	24.6	24.6	24.6	24.6	24.7	24.7	24.7	24.7	24.7	24.7	24.7
≥ 14000	25.3	25.5	25.5	25.5	25.6	25.6	25.6	25.6	25.6	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 12000	27.0	27.3	27.3	27.3	27.4	27.4	27.4	27.4	27.4	27.5	27.5	27.5	27.5	27.5	27.5	27.5
≥ 10000	29.1	29.5	29.5	29.5	29.6	29.6	29.6	29.6	29.6	29.7	29.7	29.7	29.7	29.7	29.7	29.7
≥ 9000	29.7	30.1	30.1	30.1	30.2	30.2	30.2	30.2	30.2	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 8000	31.7	32.3	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.5
≥ 7000	33.5	34.1	34.1	34.1	34.2	34.2	34.2	34.2	34.2	34.3	34.3	34.3	34.3	34.3	34.3	34.3
≥ 6000	34.0	34.5	34.5	34.5	34.6	34.6	34.6	34.6	34.6	34.7	34.7	34.7	34.8	34.8	34.8	34.8
≥ 5000	35.5	36.0	36.0	36.0	36.1	36.1	36.2	36.2	36.2	36.6	36.6	36.6	36.8	36.8	36.8	36.8
≥ 4500	36.1	36.8	36.8	36.8	36.9	36.9	37.0	37.0	37.0	37.3	37.3	37.3	37.5	37.5	37.5	37.5
≥ 4000	37.4	38.5	38.6	38.6	38.7	38.7	38.8	38.8	38.8	39.1	39.1	39.1	39.4	39.4	39.4	39.4
≥ 3500	39.2	40.6	40.8	40.8	41.0	41.0	41.1	41.1	41.1	41.4	41.4	41.4	41.6	41.6	41.6	41.6
≥ 3000	43.0	45.4	45.9	45.9	46.5	46.6	47.0	47.0	47.0	47.3	47.3	47.3	47.5	47.5	47.5	47.5
≥ 2500	48.3	51.2	52.6	52.6	53.7	54.0	54.5	54.9	54.9	55.3	55.3	55.3	55.5	55.5	55.5	55.5
≥ 2000	52.0	56.2	58.0	58.1	59.7	60.2	61.4	61.9	62.3	62.9	63.0	63.0	63.2	63.2	63.3	63.3
≥ 1800	52.8	57.6	59.8	60.0	61.6	62.2	63.4	64.1	64.5	65.2	65.3	65.3	65.5	65.5	65.6	65.6
≥ 1500	54.8	60.6	63.2	63.5	66.0	66.8	68.6	69.6	70.5	71.3	71.6	71.6	71.8	71.8	71.9	72.0
≥ 1200	55.9	62.0	64.8	65.4	68.2	69.1	71.2	72.2	73.3	74.3	74.6	74.6	74.9	74.9	75.1	75.2
≥ 1000	57.2	63.9	66.7	67.4	70.6	71.9	74.5	75.5	76.8	78.0	78.4	78.4	79.1	79.1	79.2	79.4
≥ 900	57.4	64.4	67.6	68.7	72.2	73.5	76.1	77.2	78.5	79.8	80.4	80.4	81.2	81.2	81.3	81.4
≥ 800	57.5	64.5	68.0	69.0	72.8	74.3	77.1	78.2	79.8	81.3	82.7	82.7	83.7	83.7	83.8	83.9
≥ 700	57.7	65.3	68.7	69.9	73.9	75.4	78.5	80.1	82.3	84.1	85.6	85.6	86.6	86.6	86.7	86.8
≥ 600	58.3	65.8	69.5	70.6	74.6	76.1	79.5	81.1	83.2	85.2	87.0	87.0	88.0	88.0	88.1	88.2
≥ 500	58.4	66.3	70.3	71.5	75.8	77.4	81.0	82.7	85.1	87.0	89.2	89.2	90.6	90.8	90.9	91.0
≥ 400	58.4	66.3	70.3	71.5	76.3	78.1	82.0	84.0	86.7	88.9	91.5	91.6	93.2	93.4	93.9	94.0
≥ 300	58.4	66.3	70.3	71.5	76.5	78.2	82.3	84.3	87.0	89.6	92.5	92.8	95.2	95.5	96.0	96.1
≥ 200	58.4	66.3	70.3	71.5	76.5	78.3	82.4	84.6	87.6	90.4	93.7	94.1	97.0	98.1	98.9	99.4
≥ 100	58.4	66.3	70.3	71.5	76.5	78.3	82.4	84.6	87.6	90.4	93.7	94.1	97.0	98.4	99.4	100.0
≥ 0	58.4	66.3	70.3	71.5	76.5	78.3	82.4	84.6	87.6	90.4	93.7	94.1	97.0	98.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/42C

CEILING VERSUS VISIBILITY

94826

K I SAWYER AFB HI

48-77

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	>10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING ≥ 20000	24.9	25.7	25.8	25.8	25.9	25.9	25.9	26.0	26.0	26.0	26.0	26.0	26.0	26.2	26.2	26.3
IV 18000	26.3	27.1	27.2	27.2	27.3	27.3	27.3	27.4	27.4	27.4	27.4	27.4	27.4	27.6	27.6	27.7
IV 16000	26.7	27.4	27.5	27.5	27.6	27.6	27.6	27.7	27.7	27.7	27.7	27.7	27.7	28.0	28.0	28.1
IV 14000	26.8	27.5	27.6	27.6	27.7	27.7	27.7	27.8	27.8	27.8	27.8	27.8	27.8	28.1	28.1	28.2
IV 12000	27.5	28.4	28.7	28.7	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	29.1	29.1	29.2
IV 10000	27.7	28.7	29.0	29.0	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.5	29.5	29.6
IV 9000	29.1	30.2	30.9	30.9	31.0	31.0	31.0	31.1	31.1	31.1	31.1	31.1	31.1	31.3	31.3	31.4
IV 8000	30.0	31.1	31.7	31.7	31.8	31.8	31.8	31.9	31.9	31.9	31.9	31.9	31.9	32.2	32.2	32.3
IV 7000	31.1	32.2	32.5	32.5	32.6	32.6	32.6	32.7	32.7	32.7	32.7	32.7	32.7	33.0	33.0	33.1
IV 6000	32.5	33.5	34.2	34.2	34.3	34.3	34.3	34.4	34.4	34.4	34.4	34.4	34.4	34.7	34.7	34.8
IV 5000	33.4	34.6	35.5	35.5	35.6	35.6	35.6	35.7	35.7	35.7	35.7	35.7	35.7	36.0	36.0	36.1
IV 4500	35.5	37.2	38.1	38.1	38.2	38.2	38.2	38.3	38.3	38.3	38.3	38.3	38.3	38.9	38.9	39.0
IV 4000	36.0	37.8	38.9	38.9	39.2	39.2	39.2	39.7	40.0	40.1	40.1	40.1	40.1	40.3	40.3	40.4
IV 3500	37.7	40.0	41.1	41.1	41.5	41.5	41.5	41.9	42.3	42.4	42.4	42.4	42.4	42.6	42.6	42.7
IV 3000	38.8	41.3	42.6	42.6	43.1	43.1	43.1	43.5	43.9	44.0	44.0	44.0	44.0	44.2	44.2	44.3
IV 2500	41.4	44.2	45.7	45.7	46.5	46.5	46.5	47.1	47.4	47.5	47.5	47.5	47.5	47.7	47.7	47.8
IV 2000	44.8	48.2	49.8	49.9	51.0	51.2	51.7	52.2	52.7	52.7	52.7	52.8	52.8	53.0	53.0	53.1
IV 1800	48.1	53.5	55.4	55.5	57.2	57.7	58.6	59.5	60.1	60.3	60.4	60.4	60.4	60.8	60.8	60.9
IV 1500	48.5	54.8	56.7	56.9	58.6	59.1	60.0	60.9	61.5	61.7	61.8	61.8	61.8	62.2	62.2	62.3
IV 1200	51.1	59.4	61.3	61.7	63.9	64.7	66.5	67.4	68.3	68.7	68.8	68.8	68.8	69.1	69.1	69.2
IV 1000	53.5	62.0	64.3	64.9	67.3	68.2	70.2	71.4	72.5	73.0	73.4	73.4	73.4	73.8	73.8	73.9
IV 900	54.7	63.3	65.6	66.6	69.4	70.5	73.2	74.9	76.7	77.5	78.3	78.3	78.3	78.7	78.7	78.8
IV 800	55.8	64.6	66.9	67.8	70.8	71.9	74.6	76.3	78.1	79.0	79.8	79.8	79.8	80.2	80.2	80.3
IV 700	56.3	65.2	67.4	68.5	71.8	73.0	75.8	78.4	80.2	81.3	82.5	82.5	82.5	82.9	82.9	83.0
IV 600	56.6	65.7	68.2	69.4	73.0	74.2	77.2	80.2	82.2	83.5	85.1	85.2	85.2	85.6	85.6	85.7
IV 500	57.4	66.8	69.2	70.5	74.6	75.8	79.0	82.3	84.4	85.8	87.4	87.5	87.5	88.1	88.1	88.2
IV 400	57.7	67.4	70.0	71.3	75.8	77.2	80.8	84.3	87.2	88.8	90.5	90.8	90.8	91.9	91.9	92.0
IV 300	57.8	67.5	70.2	71.5	76.3	78.6	82.6	86.5	89.5	91.1	93.0	93.3	93.3	94.6	94.6	94.9
IV 200	57.8	67.5	70.3	71.6	76.8	79.1	83.5	87.7	91.3	93.5	95.7	96.0	96.0	97.7	97.8	98.2
IV 100	57.8	67.5	70.4	71.7	76.9	79.2	83.8	88.0	91.5	94.0	96.3	96.8	96.8	98.8	98.9	99.2
IV 0	57.8	67.5	70.4	71.7	76.9	79.2	83.8	88.0	91.5	94.0	96.3	96.8	96.8	98.8	98.9	99.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/NAAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB MI

8-77

VEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING ≥ 20000	26.0	26.3	26.3	26.3	27.0	27.0	27.1	27.1	27.1	27.1	27.1	27.1	27.2	27.3	27.4	27.4
≥ 18000	26.6	26.9	26.9	26.9	27.5	27.5	27.6	27.6	27.6	27.6	27.6	27.6	27.7	27.8	28.0	28.0
≥ 16000	26.6	26.9	26.9	26.9	27.5	27.5	27.6	27.6	27.6	27.6	27.6	27.6	27.7	27.8	28.0	28.0
≥ 14000	26.9	27.2	27.2	27.2	27.8	27.8	28.0	28.0	28.0	28.0	28.0	28.0	28.1	28.2	28.3	28.3
≥ 12000	27.2	27.6	27.6	27.6	28.3	28.3	28.4	28.4	28.4	28.4	28.4	28.4	28.5	28.6	28.7	28.7
≥ 10000	29.1	29.7	29.7	29.7	30.3	30.3	30.4	30.4	30.4	30.4	30.4	30.4	30.5	30.6	30.8	30.8
≥ 8000	30.3	31.0	31.0	31.0	31.6	31.6	31.7	31.7	31.7	31.7	31.7	31.7	31.8	31.9	32.0	32.0
≥ 7000	31.1	31.8	31.8	31.8	32.5	32.5	32.6	32.6	32.6	32.6	32.6	32.6	32.7	32.8	32.9	32.9
≥ 6000	31.8	32.6	32.6	32.6	33.2	33.2	33.3	33.3	33.3	33.3	33.3	33.3	33.4	33.5	33.7	33.7
≥ 5000	32.4	33.1	33.1	33.1	33.8	33.8	33.9	33.9	33.9	33.9	33.9	33.9	34.0	34.1	34.2	34.2
≥ 4500	34.1	35.3	35.5	35.5	36.2	36.3	36.5	36.5	36.5	36.5	36.5	36.5	36.6	36.7	36.8	36.8
≥ 4000	35.3	36.7	37.2	37.3	38.1	38.3	38.5	38.5	38.5	38.5	38.5	38.5	38.6	38.7	38.8	38.8
≥ 3500	37.4	39.7	40.3	40.4	41.2	41.4	41.6	41.6	41.7	41.7	41.7	41.7	41.8	41.9	42.0	42.0
≥ 3000	38.7	41.5	42.2	42.3	43.0	43.3	43.7	43.7	43.8	43.8	43.8	43.8	43.9	44.0	44.1	44.1
≥ 2500	40.5	43.7	44.8	44.9	45.9	46.2	46.7	46.7	46.8	46.8	46.8	46.8	46.9	47.0	47.1	47.1
≥ 2000	43.3	47.3	49.1	49.6	51.4	51.9	52.5	52.5	52.8	52.9	52.9	53.0	53.1	53.2	53.2	53.2
≥ 1800	46.3	52.5	54.6	55.3	57.6	58.6	59.2	59.2	59.7	59.9	59.9	60.0	60.1	60.2	60.2	60.2
≥ 1600	47.6	54.0	56.2	56.9	59.4	60.5	61.4	61.5	62.0	62.4	62.4	62.5	62.6	62.7	62.7	62.7
≥ 1400	51.5	58.8	61.3	62.3	64.9	66.5	68.4	68.7	69.7	70.1	70.1	70.2	70.3	70.4	70.4	70.4
≥ 1200	53.7	61.4	63.9	64.9	67.8	69.5	71.8	72.5	73.4	74.0	74.2	74.3	74.4	74.5	74.5	74.5
≥ 1000	56.0	64.2	66.8	68.1	71.2	72.9	75.5	76.5	77.6	78.5	79.0	79.2	79.4	79.5	79.5	79.5
≥ 900	56.1	64.6	67.2	68.5	71.8	73.5	76.1	77.2	78.6	79.5	80.2	80.4	80.5	80.6	80.6	80.6
≥ 800	56.7	65.8	68.5	70.0	73.9	75.6	78.5	79.8	81.4	82.4	83.3	83.5	83.7	83.8	83.8	83.8
≥ 700	56.8	66.0	68.7	70.8	74.8	76.7	79.7	81.0	82.7	84.1	85.2	85.4	85.7	85.8	85.8	85.8
≥ 600	56.9	66.2	69.1	71.4	75.7	77.5	80.8	82.3	84.4	85.9	87.1	87.3	87.6	87.7	87.7	87.7
≥ 500	57.1	66.7	69.8	72.2	76.7	78.7	82.0	83.5	86.1	87.8	89.7	89.9	90.6	90.9	90.9	90.9
≥ 400	57.1	67.0	70.2	72.8	77.7	80.1	83.8	85.6	89.0	90.8	92.7	93.0	94.0	94.4	94.4	94.4
≥ 300	57.1	67.0	70.2	72.8	78.4	81.1	84.8	86.9	90.8	92.6	95.1	95.4	96.7	97.2	97.2	97.2
≥ 200	57.1	67.0	70.2	72.8	78.4	81.1	84.9	87.3	91.3	93.2	96.7	97.0	98.5	99.2	99.2	99.4
≥ 100	57.1	67.0	70.2	72.8	78.4	81.1	84.9	87.3	91.3	93.2	96.7	97.0	98.5	99.5	99.6	99.8
≥ 0	57.1	67.0	70.2	72.8	78.4	81.1	84.9	87.3	91.3	93.2	96.7	97.0	98.5	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

94836

K I SAWYER AFB HI

8-77

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	22.3	22.9	23.1	23.2	23.3	23.4	23.5	23.5	23.5	23.6	23.6	23.6	23.7	23.7	23.8	23.8
≥ 7000	23.5	24.2	24.4	24.5	24.6	24.6	24.8	24.8	24.8	24.8	24.9	24.9	25.0	25.0	25.0	25.2
≥ 1800	23.8	24.5	24.7	24.8	25.0	25.0	25.1	25.2	25.2	25.2	25.2	25.3	25.4	25.4	25.4	25.5
≥ 1600	24.0	24.7	24.9	25.0	25.2	25.2	25.3	25.4	25.4	25.4	25.5	25.5	25.6	25.6	25.6	25.7
IV 4000	24.5	25.3	25.5	25.6	25.7	25.8	25.9	26.0	26.0	26.0	26.0	26.0	26.2	26.2	26.2	26.3
IV 12000	25.5	26.3	26.6	26.7	26.8	26.9	27.0	27.0	27.1	27.1	27.1	27.1	27.3	27.3	27.3	27.4
IV 10000	26.9	27.8	28.1	28.2	28.4	28.5	28.6	28.6	28.7	28.7	28.7	28.7	28.8	28.8	28.9	29.0
IV 9000	27.7	28.6	29.0	29.1	29.3	29.4	29.5	29.5	29.6	29.6	29.6	29.6	29.7	29.8	29.8	29.9
IV 8000	28.7	29.7	30.2	30.3	30.5	30.5	30.6	30.7	30.7	30.7	30.7	30.8	30.9	30.9	30.9	31.0
IV 7000	29.7	30.7	31.2	31.3	31.5	31.5	31.6	31.7	31.7	31.7	31.7	31.8	31.9	31.9	31.9	32.0
IV 6000	30.4	31.5	32.0	32.1	32.3	32.3	32.5	32.5	32.6	32.6	32.6	32.6	32.8	32.8	32.8	32.9
IV 5000	32.6	34.1	34.7	34.9	35.2	35.3	35.5	35.6	35.6	35.7	35.7	35.7	35.9	35.9	35.9	36.1
IV 4500	33.3	35.0	35.7	35.9	36.3	36.4	36.6	36.7	36.8	36.8	36.9	36.9	37.0	37.0	37.1	37.2
IV 4000	35.0	37.1	38.0	38.2	38.6	38.7	39.0	39.2	39.2	39.3	39.4	39.4	39.6	39.6	39.6	39.7
IV 3500	36.1	38.6	39.5	39.8	40.3	40.4	40.8	40.9	41.0	41.1	41.2	41.2	41.3	41.4	41.4	41.5
IV 3000	38.8	41.9	43.0	43.4	44.3	44.4	44.8	45.0	45.1	45.2	45.3	45.3	45.5	45.5	45.6	45.7
IV 2500	42.8	47.0	48.6	49.1	50.5	50.8	51.4	51.7	51.9	52.0	52.1	52.1	52.3	52.3	52.4	52.5
IV 2000	46.3	51.8	53.1	54.4	56.4	57.0	58.0	58.5	58.9	59.2	59.4	59.4	59.6	59.7	59.8	59.9
IV 1800	47.5	53.4	55.3	56.3	58.4	59.0	60.1	60.6	61.1	61.4	61.6	61.6	61.8	61.8	61.9	62.1
IV 1500	50.4	57.1	59.5	60.6	63.2	64.1	65.9	66.8	67.6	68.0	68.3	68.4	68.6	68.6	68.7	68.8
IV 1200	52.3	59.5	62.1	63.5	66.5	67.4	69.4	70.5	71.4	72.0	72.4	72.5	72.7	72.7	72.8	73.0
IV 1000	53.9	61.6	64.5	66.2	69.4	70.5	72.8	74.1	75.2	76.0	76.7	76.8	77.1	77.1	77.2	77.4
IV 900	54.3	62.7	65.7	67.6	70.9	72.1	74.5	75.9	77.2	78.0	78.9	78.9	79.3	79.3	79.4	79.6
IV 800	54.6	63.1	66.3	68.2	71.8	73.1	75.7	77.3	78.9	79.8	81.0	81.1	81.6	81.6	81.7	81.8
IV 700	54.9	63.7	67.1	69.2	73.0	74.4	77.2	79.2	80.8	82.0	83.4	83.5	84.0	84.1	84.2	84.3
IV 600	55.3	64.4	67.9	70.1	74.2	75.7	78.8	80.9	82.8	84.1	85.6	85.7	86.3	86.3	86.4	86.6
IV 500	55.5	64.9	68.7	71.1	75.6	77.3	80.8	83.1	85.2	86.6	88.5	88.7	89.6	89.7	89.9	90.0
IV 400	55.6	65.2	69.0	71.5	76.4	78.5	82.5	85.0	87.3	89.0	91.2	91.5	92.5	92.7	93.0	93.1
IV 300	55.6	65.3	69.1	71.6	76.8	79.1	83.4	86.1	88.8	90.8	93.5	93.8	95.3	95.7	96.0	96.1
IV 200	55.6	65.3	69.1	71.6	76.8	79.2	83.6	86.5	89.4	91.7	94.8	95.3	97.5	98.3	99.2	99.9
IV 100	55.6	65.3	69.1	71.6	76.9	79.2	83.6	86.5	89.4	91.7	94.8	95.3	97.5	98.3	99.2	100.0
IV C	55.6	65.3	69.1	71.6	76.9	79.2	83.6	86.5	89.4	91.7	94.8	95.3	97.5	98.3	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 7437

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

94836 K I SAWYER AFB MI

08-78

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	20	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
NO CEILING	40.5	41.7	42.1	42.4	42.7	42.8	42.9	43.0	43.1	43.1	43.2	43.2	43.3	43.3	43.3	43.4												
≥ 20000	43.5	44.9	45.4	45.7	46.1	46.2	46.3	46.4	46.5	46.5	46.6	46.6	46.7	46.7	46.7	46.8												
≥ 18000	43.9	45.3	45.8	46.1	46.5	46.5	46.7	46.8	46.9	46.9	47.0	47.0	47.1	47.1	47.2	47.3												
≥ 16000	44.1	45.5	46.1	46.3	46.7	46.8	47.0	47.0	47.1	47.2	47.2	47.2	47.3	47.3	47.4	47.5												
≥ 14000	44.8	46.3	46.8	47.1	47.5	47.5	47.8	47.9	47.9	48.0	48.0	48.0	48.1	48.1	48.2	48.3												
≥ 12000	46.0	47.6	48.1	48.4	48.8	48.9	49.1	49.2	49.2	49.3	49.4	49.4	49.5	49.5	49.5	49.6												
≥ 10000	48.1	49.8	50.4	50.7	51.2	51.2	51.4	51.5	51.6	51.6	51.7	51.7	51.8	51.8	51.9	52.0												
≥ 9000	48.7	50.4	51.0	51.3	51.8	51.9	52.1	52.2	52.3	52.3	52.4	52.4	52.5	52.5	52.5	52.6												
≥ 8000	50.1	52.0	52.6	52.9	53.4	53.5	53.7	53.8	53.9	54.0	54.0	54.0	54.1	54.2	54.2	54.3												
≥ 7000	51.4	53.3	54.0	54.3	54.9	54.9	55.1	55.3	55.4	55.4	55.5	55.5	55.6	55.6	55.7	55.8												
≥ 6000	52.6	54.7	55.4	55.7	56.3	56.4	56.6	56.8	56.8	56.9	57.0	57.0	57.1	57.1	57.2	57.3												
≥ 5000	54.8	57.0	57.8	58.3	58.9	59.0	59.3	59.4	59.5	59.6	59.7	59.7	59.8	59.8	59.9	60.0												
≥ 4500	55.6	58.0	58.9	59.3	60.0	60.1	60.4	60.5	60.6	60.7	60.8	60.8	60.9	60.9	61.0	61.1												
≥ 4000	57.7	60.5	61.4	61.9	62.7	62.9	63.2	63.4	63.5	63.6	63.6	63.7	63.8	63.8	63.9	64.0												
≥ 3500	58.9	61.8	62.8	63.3	64.2	64.3	64.7	64.9	65.0	65.1	65.1	65.2	65.3	65.3	65.4	65.4												
≥ 3000	61.4	64.7	65.8	66.4	67.5	67.7	68.1	68.4	68.5	68.6	68.7	68.7	68.8	68.8	68.9	69.0												
≥ 2500	64.1	67.8	69.2	70.0	71.3	71.5	72.0	72.3	72.5	72.6	72.7	72.7	72.9	72.9	73.0	73.0												
≥ 2000	66.5	70.7	72.3	73.2	74.8	75.1	75.8	76.2	76.4	76.6	76.8	76.8	76.9	76.9	77.0	77.1												
≥ 1800	67.2	71.6	73.2	74.1	75.7	76.1	76.8	77.2	77.5	77.7	77.8	77.8	78.0	78.0	78.1	78.2												
≥ 1600	69.1	73.9	75.7	76.7	78.6	79.0	79.9	80.5	80.8	81.1	81.2	81.3	81.4	81.5	81.5	81.6												
≥ 1400	70.2	75.4	77.3	78.4	80.5	81.0	82.0	82.6	83.0	83.3	83.5	83.6	83.7	83.8	83.9	84.0												
≥ 1200	71.0	76.4	78.4	79.7	81.9	82.4	83.7	84.4	84.8	85.2	85.6	85.6	85.8	85.8	85.9	86.0												
≥ 1000	71.3	76.9	79.0	80.3	82.7	83.2	84.5	85.2	85.7	86.1	86.5	86.5	86.8	86.8	86.9	87.0												
≥ 900	71.6	77.3	79.6	80.9	83.4	84.0	85.3	86.1	86.7	87.2	87.6	87.7	87.9	88.0	88.1	88.2												
≥ 800	71.8	77.7	80.0	81.5	84.1	84.8	86.2	87.1	87.7	88.3	88.9	88.9	89.2	89.3	89.4	89.5												
≥ 700	72.0	78.0	80.5	81.9	84.8	85.5	87.1	88.1	88.8	89.4	90.0	90.1	90.4	90.5	90.6	90.7												
≥ 600	72.2	78.4	80.9	82.5	85.6	86.6	88.5	89.7	90.5	91.2	92.0	92.1	92.5	92.6	92.8	92.9												
≥ 500	72.2	78.5	81.2	82.8	86.3	87.2	89.3	90.8	91.7	92.6	93.5	93.6	94.1	94.2	94.4	94.6												
≥ 400	72.3	78.6	81.3	83.0	86.6	87.6	90.0	91.7	92.9	94.0	95.1	95.3	96.0	96.2	96.5	96.7												
≥ 300	72.3	78.6	81.3	83.0	86.7	87.7	90.2	92.0	93.4	94.7	96.2	96.4	97.6	98.0	98.3	98.4												
≥ 200	72.3	78.6	81.3	83.0	86.7	87.7	90.2	92.0	93.4	94.7	96.2	96.4	97.6	98.0	98.3	98.4												
≥ 100	72.3	78.6	81.3	83.0	86.7	87.7	90.2	92.0	93.4	94.7	96.2	96.4	97.6	98.0	98.3	98.4												
≥ 0	72.3	78.6	81.3	83.0	86.7	87.7	90.2	92.0	93.4	94.7	96.2	96.4	97.6	98.0	98.3	98.4												

TOTAL NUMBER OF OBSERVATIONS 87586

TOTAL SKY COVER

FOR THE PERIOD OF RECORD 1971 AND LATER THE AIRWAYS
SYMBOLS OF CLEAR, SCATTERED, BROKEN, OVERCAST, & OBSCURED
WERE USED AS INPUT FOR THE TOTAL SKY COVER.

CLEAR WAS CONVERTED TO 0/10

SCATTERED WAS CONVERTED TO 3/10

BROKEN WAS CONVERTED TO 9/10

OVERCAST WAS CONVERTED TO 10/10

OBSCURED WAS CONVERTED TO 10/10

SKY COVER

94836
STATION

K I SAWYER AFB MI

STATION NAME

74-78

PERIOD

.JAN

MONTI

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	00-02	15.3			15.3						14.2	55.3	7.3	459
	03-05	14.2			13.8						15.5	56.6	7.5	465
	06-08	12.1			15.3						16.6	55.9	7.6	463
	09-11	6.7			16.4						27.8	49.1	7.9	464
	12-14	5.2			11.3						26.5	50.1	7.9	465
	15-17	2.4			20.4						25.8	51.4	8.1	465
	18-20	8.2			19.4						16.8	55.6	7.7	464
	21-23	12.6			14.1						15.6	57.8	7.6	462
TOTALS		9.6			16.6						19.9	54.0	7.7	3707

USA FETAC

FORM 0-9-5 (OL-A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

FEB
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
FEB	00-02	18.1			16.8						16.2	48.9	6.9	507
	03-05	16.8			13.8						14.8	54.5	7.2	506
	06-08	10.7			13.6						16.0	59.8	7.8	507
	09-11	5.5			14.8						26.8	52.9	8.1	507
	12-14	4.3			19.0						28.9	47.8	7.9	506
	15-17	2.6			21.1						28.0	48.3	8.0	507
	18-20	5.1			26.1						20.9	47.8	7.5	506
	21-23	17.8			18.2						12.6	51.4	6.8	506
TOTALS		10.1			17.9						20.5	51.4	7.5	4052

SKY COVER

94836
STATION

K I SAWYER AFB MI

72-78

MAR
MONT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
MAR	00-02	26.7			13.6						8.2	51.4	6.3	558
	03-05	22.8			15.8						11.1	50.4	6.5	558
	06-08	14.2			19.9						14.2	51.7	7.0	357
	09-11	8.4			18.1						19.9	53.6	7.7	558
	12-14	5.2			19.2						21.9	53.8	7.9	558
	15-17	5.7			18.0						23.5	52.8	7.9	557
	18-20	7.3			23.1						16.1	53.4	7.5	558
	21-23	16.4			22.8						11.9	48.9	6.6	556
TOTALS		13.3			18.8						15.9	52.0	7.2	4460

USAFETAC

FORM
FD-64

0-9-5 (OL-A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

73-78

APR
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
APR	00-02	35.3			12.3						10.8	41.6	5.5	538
	03-05	31.3			14.6						11.1	43.0	5.7	540
	06-08	15.4			19.4						20.9	44.3	6.9	540
	09-11	10.4			19.8						19.8	50.0	7.4	540
	12-14	6.7			22.8						23.1	47.4	7.5	540
	15-17	7.4			23.7						25.2	43.7	7.3	540
	18-20	12.4			26.1						21.1	40.4	6.7	540
	21-23	24.4			22.0						14.8	35.7	5.9	540
TOTALS		17.9			20.1						18.4	43.6	6.6	4318

SKY COVER

MAY
CONT

MONTH	HOURS (L S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAY	00-02	34.2			20.7						12.8	32.4	5.0	556
	03-05	28.9			20.6						15.2	35.4	5.5	554
	06-08	17.3			22.7						22.3	37.7	6.5	555
	09-11	12.2			24.4						22.6	40.9	6.8	558
	12-14	8.8			26.5						24.2	40.5	7.0	558
	15-17	6.8			28.3						30.6	34.2	7.0	558
	18-20	8.2			33.0						26.2	32.6	6.6	558
	21-23	17.6			31.9						18.3	32.3	5.8	558
TOTALS		16.8			26.0						21.5	35.6	6.3	4455

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

94836 K I SAWYER AFB MI
STATION STATION NAME

73-78
PERIOD

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JUN	00-02	26.6			24.0						18.2	31.3	5.5	534
	03-05	21.3			26.6						18.5	33.7	5.8	531
	06-08	13.0			27.3						24.2	35.5	6.6	532
	09-11	9.6			26.3						29.3	34.7	6.9	539
	12-14	5.7			23.0						36.1	35.2	7.5	540
	15-17	4.1			26.1						35.7	34.1	7.4	540
	18-20	7.8			29.9						30.8	31.5	6.8	536
	21-23	12.0			32.5						27.1	28.4	6.3	535
TOTALS		12.5			27.0						27.5	33.1	6.6	4287

SKY COVER

JUL
MON

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUL	00-02	30.9			30.3						18.8	20.0	4.6	554
	03-05	24.2			33.2						18.7	24.0	5.1	546
	06-08	14.6			31.9						26.5	27.0	6.0	555
	09-11	12.0			35.5						23.8	28.7	6.1	558
	12-14	3.8			35.3						31.9	29.0	6.8	555
	15-17	2.5			36.8						36.4	24.2	6.8	557
	18-20	8.4			38.4						32.3	20.8	6.1	557
	21-23	13.5			44.9						21.1	20.4	5.3	554
TOTALS		13.7			35.8						26.2	24.3	5.9	4436

USAFETAC

FORM
JUL 64

FORM 0-9-5 (OL-A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

SEP
MON

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
SEP	00-02	28.2			17.6						13.5	40.7	5.8	535
	03-05	25.8			18.0						14.6	41.6	6.0	534
	06-08	9.7			25.2						25.0	40.1	7.0	536
	09-11	6.1			22.1						31.4	40.4	7.5	539
	12-14	3.3			21.5						34.3	40.9	7.8	540
	15-17	4.8			24.6						33.5	37.0	7.5	540
	18-20	8.0			30.2						26.3	35.4	6.8	539
	21-23	21.3			23.5						15.6	39.6	6.1	540
TOTALS		13.4			22.8						24.3	39.5	6.8	4303

SKY COVER

PCY
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
Oct	00-02	21.6			19.8						21.5	37.1	6.2	556
	03-05	23.6			16.9						15.0	44.5	6.3	555
	06-08	14.6			20.4						28.5	36.5	6.6	554
	09-11	7.7			20.8						30.9	40.6	7.5	557
	12-14	6.8			19.7						32.4	41.0	7.6	558
	15-17	5.9			26.4						28.0	39.7	7.3	557
	18-20	5.4			25.9						27.3	38.4	7.1	557
	21-23	17.9			19.9						19.9	42.3	6.6	558
TOTALS		13.3			21.2						25.5	40.0	6.9	4452

SKY COVER

73-78

NDV

STATION

NATION NAME

2007

MONTH

MONTH	HOURS (-S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
NQV	00-02	18.4			9.5						17.9	54.2	7.3	537
	03-05	18.8			10.2						14.9	56.1	7.3	538
	06-08	13.2			15.0						17.1	54.7	7.5	539
	09-11	8.0			12.6						23.9	55.6	8.1	540
	12-14	6.5			11.1						27.0	55.4	8.3	540
	15-17	5.2			15.8						25.9	53.1	8.1	537
	18-20	7.5			18.5						21.3	52.8	7.7	536
	21-23	14.3			15.1						14.9	55.7	7.4	537
TOTALS		11.5			13.5						20.4	54.7	7.7	4304

USAFETAC

FORM 0-9-5 (OL-A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

DEC

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
DEC	00-02	12.6			11.7						17.6	58.1	7.7	461
	03-05	13.1			11.2						14.7	61.0	7.8	464
	06-08	9.0			15.3						12.9	62.8	7.9	465
	09-11	5.6			12.9						19.4	62.1	8.3	464
	12-14	3.0			12.7						25.0	59.3	8.6	464
	15-17	1.7			15.7						27.7	56.8	8.5	465
	18-20	7.3			17.5						16.6	58.5	7.9	463
	21-23	13.1			11.4						13.8	61.6	7.7	464
TOTALS		8.2			13.6						18.5	59.8	8.1	3710

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

94836
STATION

K I SAWYER AFB HI
STATION NAME

73-78
PERIOD

ALL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	9.6			16.6						19.9	54.0	7.7	3707
FEB		10.1			17.9						20.5	51.4	7.5	4052
MAR		13.3			18.8						15.9	52.0	7.2	4460
APR		17.9			20.1						18.4	43.6	6.6	4318
MAY		16.8			25.0						21.5	35.8	6.3	4455
JUN		12.5			27.0						27.5	33.1	6.6	4287
JUL		13.7			35.8						26.2	24.3	5.9	4436
AUG		16.2			31.4						23.9	28.6	5.9	4443
SEP		13.4			22.8						24.3	39.5	6.8	4303
OCT		13.3			21.2						25.5	40.0	6.9	4452
NOV		11.5			13.5						20.4	54.7	7.7	4304
DEC		8.2			13.6						18.5	59.6	8.1	3710
TOTALS		13.0			22.1						21.9	43.1	6.9	50927

USAFETAC

FORM 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

- a. Daily maximum temperatures
- b. Daily minimum temperatures
- c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:

- a. Extreme maximum temperature
- b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) * indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum X^2$), sums of values ($\sum X$), means (\bar{X}), and standard deviations (σ_x). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC

AIR WEATHER SERVICE/MAC

STATION 94836 K I SAHYER AFB MI STATION NAME

59-74

YEARS

DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
100						.2							.0
95							1.0	.3					.1
90					.7	1.9	2.9	2.5	.4				.7
85					2.5	7.4	10.5	8.5	2.1				2.6
80				.2	8.1	18.6	29.4	22.8	6.5	1.0			7.4
75				1.2	14.3	34.7	52.3	43.6	15.8	4.1			13.9
70				4.0	26.3	54.4	75.2	65.0	27.5	9.3			22.0
65				7.4	37.5	70.2	89.0	81.3	43.2	17.5	1.1		29.1
60			.5	14.4	52.3	83.0	98.0	93.2	63.2	29.5	2.6		36.6
55		.2	1.5	24.6	63.2	92.6	99.7	99.2	80.0	45.2	5.8	.3	43.1
50		.6	5.6	36.0	77.1	98.4	100.0	100.0	93.0	61.6	12.3	.7	49.0
45	.3	1.3	10.7	52.3	90.3	99.7		98.8	76.6	22.3	1.4		54.7
40	2.0	4.1	21.7	67.4	96.3	100.0		100.0	88.5	37.4	3.4		60.3
35	6.8	10.2	39.9	83.0	99.3				95.8	57.2	12.7		67.3
30	19.7	23.3	60.1	95.1	100.0				99.8	78.1	29.9		75.7
25	33.3	44.1	80.5	98.8					100.0	93.2	53.0		83.7
20	52.0	63.1	90.5	99.6						96.8	75.9		89.9
15	68.3	79.1	97.3	100.0						99.3	88.6		94.4
10	82.0	89.2	99.2							99.6	95.6		97.2
5	91.2	95.7	100.0							100.0	98.6		98.8
0	97.3	96.7									100.0		99.7
-5	99.2	99.4											99.9
-10	99.8	100.0											100.0
-15	100.0												100.0
MEAN	19.6	22.6	32.4	46.2	60.5	70.1	74.9	72.9	63.5	53.4	37.3	25.0	48.2
S. D.	10.508	10.017	9.757	11.783	12.572	10.113	7.997	8.592	10.025	11.471	10.103	8.713	22.080
TOTAL OBS	589	537	589	570	589	570	589	589	570	589	570	589	6940

GLOBAL CLIMATOLOGY BRANCH
USAFETAC

AIR WEATHER SERVICE/MAC

94836 K I SAWYER AFB MI

STATION

STATION NAME

-9-78

YEARS

DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
70							.5	.5					.1
65					.2	1.2	5.8	2.7	1.8	.2			1.0
60					1.4	7.2	22.6	16.3	5.4	1.0			4.5
55					6.8	18.9	43.6	36.2	14.0	2.7			10.3
50				1.2	12.4	41.1	65.9	62.6	29.3	7.5	.2		18.5
45				4.0	26.3	44.2	86.9	80.3	50.0	18.8	.7	.2	27.8
40			.2	8.2	47.9	82.6	97.3	93.7	69.3	33.6	5.1		36.1
35			2.7	17.2	60.3	94.2	99.7	98.8	85.1	49.7	11.5	.7	43.6
33	.3	.2	4.2	24.4	66.7	96.5	99.8	99.7	91.2	59.9	16.0	2.0	47.0
30	1.2	.9	9.3	40.0	82.5	99.3	100.0	100.0	97.4	75.9	30.0	6.5	53.8
25	6.1	3.5	24.1	68.1	95.1	100.0			99.1	92.5	57.2	14.8	63.6
20	12.4	11.7	39.7	82.6	99.5				100.0	98.1	73.5	27.2	70.6
15	22.4	23.8	52.0	92.1	100.0					99.5	85.8	43.3	76.8
10	35.0	39.1	64.5	96.5						100.0	92.8	59.1	82.4
5	48.2	52.5	74.5	98.8							97.9	70.8	87.0
0	61.6	65.0	85.2	99.8							99.3	81.5	91.1
-5	74.9	75.6	93.5	100.0							100.0	90.7	94.6
-10	84.4	87.0	96.8									97.1	97.1
-15	91.3	94.2	99.3									99.2	98.7
-20	96.9	98.9	99.5									99.8	99.6
-25	99.8	100.0	100.0									100.0	100.0
-30	100.0												100.0
MEAN	3.7	4.6	14.1	27.4	38.1	47.5	53.1	51.5	44.5	36.0	24.6	11.5	29.7
S.D.	12.980	12.340	12.611	8.895	9.253	7.979	7.420	7.635	9.034	8.893	9.282	11.938	19.965
TOTAL OBS.	589	537	589	570	589	570	589	589	570	589	570	589	6940

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC
94836 K I SAWYER AFB MI
STATION STATION NAME

DAILY TEMPERATURES

69-78

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MEAN

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
85							.2						.0
80						.2	1.0	.5					.1
75					.7	2.5	7.3	4.9	1.9				1.5
70					2.9	10.0	22.9	17.3	4.7	.5			4.9
65					9.5	26.7	48.7	40.9	13.0	1.9			11.8
60				1.9	17.3	48.6	73.0	63.3	27.7	7.1			20.1
55				4.6	28.9	69.3	93.4	85.1	47.4	17.0	.2		29.0
50			.3	6.9	47.0	85.6	99.2	97.5	67.2	31.2	2.1	.2	36.8
45			1.5	19.8	64.5	97.2	100.0	99.8	87.4	49.4	7.9	.5	44.2
40			5.3	36.5	83.0	99.8		100.0	97.4	68.4	17.2	1.2	51.0
35	.7	.9	13.9	58.9	95.4	100.0			99.6	87.3	36.0	3.4	58.3
30	5.6	5.4	31.1	80.0	99.8				100.0	96.3	59.8	12.4	66.1
25	14.6	15.3	47.9	92.3	100.0					99.5	77.9	28.5	73.2
20	27.0	34.1	64.0	97.4						100.0	90.4	47.4	80.2
15	42.1	49.3	78.4	99.3							95.8	66.7	86.1
10	58.2	65.0	91.3	100.0							99.1	80.8	91.3
5	73.0	80.3	96.9								99.6	91.2	95.1
0	83.9	90.1	98.8								100.0	96.6	97.5
-5	92.4	96.5	99.8									99.3	99.0
-10	98.1	99.3	100.0									100.0	99.8
-15	99.8	100.0											100.0
-25	100.0												100.0
MEAN	11.8	13.8	23.5	37.1	49.5	59.0	64.2	62.5	54.3	44.9	31.2	18.5	39.2
S. D.	11.372	10.418	10.287	9.285	9.998	8.121	6.906	7.253	8.658	9.331	9.145	9.833	20.612
TOTAL OBS.	589	537	589	570	589	570	589	389	570	589	570	589	6940

(FROM DAILY OBSERVATIONS)

94836 K I SA-YFH AFb HI
STATION STATION NAME

59-72

YEARS

WOMEN DOGS FAREWELL

[illegible]

NOTES * (BASED ON LESS THAN FULL MONTHS)

(AT LEAST ONE DAY LESS THAN 24 HRS)

USAF ETAC FORM 0-88-5 (OLI)

USAF ETAC FORM 2-88-5 (OLD)

PSYCHROMETRIC SUMMARY

- 9-78

YEARS

141
MONTH

PAGE 1

0000-0200
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

69-75

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 2

0000-0200

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
24/-25	.2																	2	2	2	11		
26/-27																					14		
30/-31																					1		
32/-33																					1		
34/-35																					5		
TOTAL	36,163.5	.4																928	928	928	928		

PSYCHROMETRIC SUMMARY:

9-73

PAGE 1 0300-0500
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
42/ 41		.1																1	1															
40/ 39																				1														
38/ 37	.3	.2																5	5	4	4													
36/ 35		.4																4	4	1	1													
34/ 33		.4																4	4	7	1													
32/ 31	.8	1.1	.2															19	19	15	11													
30/ 29	.9	1.3																20	20	17	12													
28/ 27	1.8	2.0																36	36	33	18													
26/ 25	1.0	2.5																32	32	31	29													
24/ 23	.1	2.4																23	23	18	19													
22/ 21	.5	4.5																47	47	43	21													
20/ 19	2.2	2.6																44	44	55	26													
18/ 17	1.1	3.7																44	44	32	47													
16/ 15	.9	4.1																46	46	53	44													
14/ 13	.3	4.4																44	44	34	32													
12/ 11	1.5	4.7																58	58	59	26													
10/ 9	1.7	4.3																56	56	63	45													
8/ 7	.8	5.1																54	54	40	55													
6/ 5	.5	3.4																37	37	52	45													
4/ 3	2.3	3.5																54	54	54	42													
2/ 1	1.1	4.6																53	53	46	30													
0/ -1	3.2	1.6																45	45	53	46													
-2/ -3	2.2	1.3																32	32	44	46													
-4/ -5	2.0	1.4																32	32	30	35													
-6/ -7	3.2																	30	30	35	36													
-8/ -9	3.2																	30	30	30	38													
-10/-11	3.1																	29	29	29	32													
-12/-13	1.0																	9	9	9	29													
-14/-15	2.0																	19	19	19	38													
-16/-17	1.4																	13	13	13	33													
-18/-19	.3																	3	3	3	19													
-20/-21	.3																	3	3	3	20													
-22/-23																					13													
-24/-25	.4																	4	4	4	17													
Element (X)	ΣX ²		ΣX		Σ		Σ _x		No. Obs.		Mean No. of Hours with Temperature																							
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 °		≥ 80 F		≥ 93 F		Total											
Dry Bulb																																		
Wet Bulb																																		
Dew Point																																		

PSYCHROMETRIC SUMMARY:

94836	K I SAWYER AFB MI
STATION	STATION NAME

69-78

YEARS

JA
MONTI

PAGE 2

0300-0500

HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

9-78

JA

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0600-0600

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
40/ 39	.2																	2	2	2	2														
38/ 37	.1	.2																3	3	1	1														
36/ 35		.2																2	2	4															
34/ 33		.4																4	4	1	4														
32/ 31	.3	.9																11	11	9	4														
30/ 29	1.0	1.8																26	26	19	11														
28/ 27	1.0	2.9																30	36	38	17														
26/ 25	1.2	1.9																29	29	27	29														
24/ 23	.8	1.5																21	21	27	24														
22/ 21	.8	2.6																31	31	25	24														
20/ 19	2.9	3.0	.1															56	56	48	24														
18/ 17	1.3	3.5	.1															45	45	42	30														
16/ 15	.8	4.9																52	52	53	33														
14/ 13	.9	3.9																44	44	44	44														
12/ 11	.5	5.1																52	52	51	35														
10/ 9	2.2	5.1																67	68	65	45														
8/ 7	.8	6.1																64	64	57	53														
6/ 5	.6	3.1																35	35	48	47														
4/ 3	1.4	3.0																41	41	43	40														
2/ 1	.4	3.8																39	39	37	52														
0/ -1	2.9	1.3																39	39	46	53														
-2/ -3	2.8	1.7																42	42	50	24														
-4/ -5	2.5	1.3																35	35	32	26														
-6/ -7	3.5	.5																37	37	43	30														
-8/ -9	3.3																	31	31	32	32														
-10/-11	2.5																	23	23	23	39														
-12/-13	1.4																	13	13	13	34														
-14/-15	1.8																	17	17	17	30														
-16/-17	1.9																	18	18	18	34														
-18/-19	.8																	7	7	7	27														
-20/-21	.2																	2	2	2	20														
-22/-23																					22														
-24/-25	.3																	3	3	3	14														
-26/-27																					11														
Element (X)	Σ X ²	Σ X	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																								
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64

PSYCHROMETRIC SUMMARY

94836 K. I SAWYER AFB MI
STATION STATION NAME

9-75

YEARS

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PAGE 2 2600-0800
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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94035 K I SAWYER AFB MI

9-76

JAN

STATION

STATION NAME

YEAR

MONTH

PAGE 1 0900-1100

HOURS G. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL D.B. W.B.	TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	Dry Bulb	Wet Bulb	Dew Point																			
40/ 39	.3																	3	3		3	3																	
38/ 37		.3																3	3																				
36/ 35			.1															1	1		3																		
34/ 33	.1	.4		.1														6	6		1																		
32/ 31	.4	1.1																14	14		12																		
30/ 29	.8	2.4	.2															31	31		20																		
28/ 27	1.3	2.5																35	35		43																		
26/ 25	.6	1.8	.1															24	24		20																		
24/ 23	.4	1.8	.1															22	22		26																		
22/ 21	.9	3.3	.1															40	40		30																		
20/ 19	1.4	4.0																50	50		45																		
18/ 17	.8	5.8																61	61		55																		
16/ 15	.8	4.3	.1															48	48		58																		
14/ 13	.5	5.7																58	58		48																		
12/ 11	.6	5.4																56	56		59																		
10/ 9	1.4	7.3																81	81		72																		
8/ 7	1.0	5.5																60	60		68																		
6/ 5	.3	4.0																40	40		50																		
4/ 3	1.0	3.2																39	39		44																		
2/ 1	.8	3.4																39	39		44																		
0/ -1	3.2	.9																38	38		40																		
-2/ -3	2.4	1.9																40	40		41																		
-4/ -5	2.0	1.6																34	34		36																		
-6/ -7	2.3	.4																25	25		28																		
-8/ -9	2.9																	27	27		29																		
-10/-11	1.7																	16	16		16																		
-12/-13	1.0																	9	9		9																		
-14/-15	1.3																	12	12		12																		
-16/-17	.8																	7	7		7																		
-18/-19	.6																	6	6		6																		
-20/-21	.2																	2	2		2																		
-22/-23	.1																	1	1		1																		
-24/-25	.1																	1	1		1																		
-26/-27																																							
Element (X)	Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X					
Rel. Hum.																			≤ 0 F			≤ 32 F			≥ 67 F			≥ 73 F			≥ 80 F			≥ 93 F			Total		
Dry Bulb																																							
Wet Bulb																																							
Dew Point																																							

FORM 14
0-26-5 (OL A)
USAFETAC
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

69-75

YEARS

JAN
MONTH

PAGE 2

0900-1100
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

9-78
YEARS

JAN
MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
44/ 43					.1													1	1						
42/ 41	.3			.2														5	5	3	3				
40/ 39				.2														2	2						
38/ 37		.3	.1															4	4	2					
36/ 35		.4	.6															10	10	5	3				
34/ 33	.1	.5	.2	.2														10	10	12	2				
32/ 31	.5	2.4	.6	.4														37	37	19	9				
30/ 29	.5	2.2	.2															27	27	33	12				
28/ 27	1.0	2.3	.4															34	34	33	34				
26/ 25	.2	2.8	.4															32	32	29	22				
24/ 23	.5	3.1	.3															37	37	34	18				
22/ 21	.3	4.8	.3															51	51	38	29				
20/ 19	.6	7.4	.4															79	79	60	26				
18/ 17	.9	6.5	1.1															78	78	81	24				
16/ 15	.2	8.5	1.2															92	92	83	69				
14/ 13	.4	5.6	.4															60	60	82	44				
12/ 11	.1	5.6	.5															58	58	53	66				
10/ 9	.3	8.4	.1															82	82	71	65				
8/ 7		6.1																57	57	66	63				
6/ 5		3.0																28	28	61	43				
4/ 3	.2	3.4																34	34	27	42				
2/ 1	.1	4.0																44	44	37	41				
0/ -1	1.2	1.4																24	24	46	46				
-2/ -3	.2	1.3																14	14	18	50				
-4/ -5	.1	.9																9	9	13	40				
-6/ -7	.2	.1																3	3	6	33				
-8/ -9	1.5																	14	14	14	33				
-10/-11	.3																	3	3	3	18				
-12/-13	.1																	1	1	1	24				
-14/-15																					30				
-16/-17																					13				
-18/-19																					8				
-20/-21																					8				
-22/-23																					1				
Element (X)	Σx^2		Σx		\bar{x}		s_x		No. Obs.		Mean No. of Hours with Temperature														
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total								
Dry Bulb																									
Wet Bulb																									
Dew Point																									

PSYCHROMETRIC SUMMARY

YEARS

JAN
MONTH

1200-1400
HOURS (L. S. T.)

[illegible]

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUL 84

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

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JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
48/ 47					.1													1	1													
46/ 45					.2													3	3													
44/ 43				.1	.1													2	2													
42/ 41	.2																	2	2	2	2											
40/ 39	.1		.3															4	4	2	1											
38/ 37		.6	.1	.1														8	8	6												
36/ 35		.5	.3															8	8	9	3											
34/ 33		.4	.6	.4														14	14	9	3											
32/ 31	.6	2.3	1.0	.1														37	37	19	12											
30/ 29	.6	1.7	1.1	.2														34	34	38	16											
28/ 27	1.6	2.4	.9															45	45	39	39											
26/ 25	.2	4.0	.3															42	42	36	24											
24/ 23		3.3	1.4															44	44	44	17											
22/ 21	.1	4.7	1.0															54	54	44	21											
20/ 19	.2	6.9	1.4															79	79	64	33											
18/ 17	.4	5.6	2.0	.1														76	76	76	40											
16/ 15	.3	6.6	1.1															74	74	74	61											
14/ 13		3.7	1.0															43	43	76	40											
12/ 11	.3	7.5	.8															80	80	45	62											
10/ 9		8.3	.4															81	81	74	60											
8/ 7		5.3	.1															50	50	83	54											
6/ 5		3.1																29	29	46	39											
4/ 3	.1	3.8																36	36	27	44											
2/ 1	.2	2.8																28	28	43	52											
0/ -1	1.1	1.3																22	22	31	44											
-2/ -3	.2	1.0																11	11	18	49											
-4/ -5	.1	.4																5	5	6	42											
-6/ -7	.1	.5																6	6	7	29											
-8/ -9	.6																	6	6	6	34											
-10/-11	.2																	2	2	2	30											
-12/-13	.1																	1	1	1	21											
-14/-15	.1																	1	1	1	19											
-16/-17																					10											
-18/-19																					11											
Element (X)	Σ x ²		Σ x		x̄		s _x		No. Obs.		Mean No. of Hours with Temperature																					
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total									
Dry Bulb																																
Wet Bulb																																
Dew Point																																

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

69-70

YEARS

JAN
MONTH

PAGE 2 1500-1700
HOURS (L. S. T.)

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PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB HI
STATION STATION NAME

09-78

Jan
MONTH

PAGE 1 1800-2000
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PSYCHROMETRIC SUMMARY

94835 K I SAWYER AFB MI
STATION STATION NAME

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YEARS

 JAN
MONTH

PAGE 2

1800-2000
HOURS (L. S. T.)

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PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB HI
STATION STATION NAM.

9-78

YEARS

JAN
MONT-

PAGE 1 2100-2300
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL C.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
40/ 39		.3																3	3	2	1											
38/ 37	.2	.2																4	4	5	4											
36/ 35	.3	.1	.3															7	7	4	5											
34/ 33	.1	.5	.2															8	6	7	2											
32/ 31		2.5																23	23	11	3											
30/ 29	1.0	2.5																32	32	37	14											
28/ 27	.8	1.6	.2															24	24	22	29											
26/ 25	1.2	3.0																39	39	31	30											
24/ 23	.4	3.2	.2															36	36	37	20											
22/ 21	.1	4.1	.3															42	42	44	21											
20/ 19	.9	4.9	.2															56	56	31	23											
18/ 17	.4	4.6	.3															50	50	65	44											
16/ 15	.3	4.0																40	40	50	33											
14/ 13	.9	4.2	.1															48	48	36	49											
12/ 11	.5	5.4	.1															56	56	50	38											
10/ 9	1.1	6.0																66	66	74	49											
8/ 7	.9	6.5																68	68	56	44											
6/ 5	.9	2.9																35	35	59	52											
4/ 3	1.8	3.3																48	48	43	38											
2/ 1	.8	4.1																45	45	46	55											
0/ -1	3.5	.9																41	41	53	50											
-2/ -3	2.0	1.2																30	30	33	41											
-4/ -5	2.4	.8																29	29	32	33											
-6/ -7	2.3																	21	21	23	42											
-8/ -9	3.2																	30	30	30	37											
-10/-11	2.2																	20	20	20	35											
-12/-13	1.2																	11	11	11	26											
-14/-15	.5																	5	5	5	26											
-16/-17	.6																	6	6	6	20											
-18/-19	.4																	4	4	4	14											
-20/-21	.3																	3	3	3	8											
-22/-23																					10											
-24/-25																					15											
-26/-27																					12											
Element (X)	ΣX ²		ΣX		X̄		σ _x		No. Obs.		Mean No. of Hours with Temperature																					
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total									
Dry Bulb																																
Wet Bulb																																
Dew Point																																

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

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YEARS

JAN
MONTH

PAGE 2 2100-2300
HOURS (L., S., T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

ALL

NOV 14 1964

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb/Dew Point															
48/ 47					.0													1	1																
46/ 45					.0													3	3																
44/ 43				.0	.0													5	5																
42/ 41	.1	.0		.0														9	9	8															
40/ 39	.1	.1	.0	.0														18	18	13															
38/ 37	.1	.3	.1	.0														39	39	26															
36/ 35	.0	.4	.2															46	46	30															
34/ 33	.1	.5	.2	.1														63	63	59															
32/ 31	.4	1.8	.2	.1														189	189	116															
30/ 29	.8	1.9	.2	.0														218	218	220															
28/ 27	1.3	2.2	.3	.0														279	279	265															
26/ 25	.8	2.8	.2															274	274	229															
24/ 23	.4	2.9	.3															262	262	268															
22/ 21	.4	3.9	.2															340	340	307															
20/ 19	1.3	4.6	.3															459	459	396															
18/ 17	.8	5.0	.5	.0														471	471	450															
16/ 15	.6	5.2	.3															461	461	483															
14/ 13	.5	4.7	.2															403	403	408															
12/ 11	.6	5.5	.2															468	468	442															
10/ 9	1.1	6.3	.1															552	553	536															
8/ 7	.6	5.8	.0															477	477	477															
6/ 5	.4	3.3																295	295	431															
4/ 3	1.0	3.6																343	343	333															
2/ 1	.5	4.1																341	341	350															
0/ -1	2.7	1.1																288	288	378															
-2/ -3	1.7	1.4																229	229	271															
-4/ -5	1.5	1.1																194	194	193															
-6/ -7	1.9	.2																156	156	191															
-8/ -9	2.6																	195	195	198															
-10/-11	1.7																	126	126	126															
-12/-13	.8																	58	58	58															
-14/-15	.9																	67	67	67															
-16/-17	.8																	56	56	56															
-18/-19	.3																	22	22	22															
Element (X)	ΣX ²		ΣX		X̄		s _x		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																		
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

69-73

YEARS

JAN

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Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
20/-21	.2																	12	12	12	106														
22/-23	.0																	3	3	3	81														
24/-25	.1																	10	10	10	83														
26/-27																					68														
28/-29																					17														
30/-31																					12														
32/-33																					9														
34/-35																					10														
36/-37																					7														
TOTAL	27,268.9	3.6	.3	.1														7432	7433	7432															
																		7432	7432																

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STATION NAME

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[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

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YEARS

FEB
MONTH

PAGE 2

0000-0200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
-28/-29																						1											
-30/-31																						2											
-34/-35																						1											
-36/-37																						2											
TOTAL	33.46	1.6	4.1	.8														844	846	844	844												

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

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FEB
MONTH

PAGE 1

0300-0500
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
36/ 35		.2	.1	.1														4	4			
34/ 33		.2		.1														3	3			
32/ 31		.8	.7															13	13	2		
30/ 29	.8	1.9	.5															27	27	19	4	
28/ 27	.6	2.7	.4															31	31	36	15	
26/ 25		4.0	.2															36	36	22	12	
24/ 23	.7	4.6	.2															47	47	49	28	
22/ 21	.8	5.6	.4															57	57	44	34	
20/ 19	1.5	4.1																48	48	65	33	
18/ 17	1.1	5.7	.4															60	60	58	51	
16/ 15	1.3	4.5																49	49	55	47	
14/ 13	1.1	3.4																38	38	37	57	
12/ 11	2.7	4.0	.4															60	60	61	51	
10/ 9	2.4	3.1																46	46	53	59	
8/ 7	1.5	2.4																33	33	38	49	
6/ 5	.2	3.7																33	33	26	36	
4/ 3	.7	2.6																28	28	33	36	
2/ 1	.6	5.2																49	49	42	28	
0/ -1	2.8	.2																26	26	43	26	
-2/ -3	3.1	.6																31	31	32	18	
-4/ -5	2.7	.1																24	24	25	38	
-6/ -7	2.1	.1																19	19	19	41	
-8/ -9	2.1																	18	18	18	34	
-10/ -11	2.2																	19	19	19	36	
-12/ -13	1.5																	13	13	13	12	
-14/ -15	1.8																	15	15	15	25	
-16/ -17	.9																	8	8	8	10	
-18/ -19	1.1																	9	9	9	16	
-20/ -21	.2																	2	2	2	15	
-22/ -23																					12	
-24/ -25																					6	
-26/ -27																					9	
-28/ -29																					4	
-30/ -31																					1	
Element (X)	Σ X ²		Σ X		X		X		No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total					
Dry Bulb																						
Wet Bulb																						
Dew Point																						

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC
JUL 64

PSYCHROMETRIC SUMMARY

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K I SAWYER AFB MI

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0300-0500

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

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K I SAWYER AFB MI

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FEB

STATION

STATION NAME

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0600-0800

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point									
36/ 35			.2																2	2									
34/ 33			.2																3	3									
32/ 31		.1	.8	.2															10	10	6								
30/ 29	.5	1.7	.5																22	22	14	4							
28/ 27	.4	2.9																	27	27	24	10							
26/ 25	.1	4.5	.2																41	41	31	17							
24/ 23	1.1	4.6	.2																50	50	53	22							
22/ 21	.5	5.6																	51	51	38	35							
20/ 19	1.1	4.2	.1																45	46	58	36							
18/ 17	1.5	4.2	.7																54	56	61	41							
16/ 15	1.2	4.0																	44	44	45	56							
14/ 13	.8	5.0																	49	49	40	45							
12/ 11	1.7	4.2	.1																50	50	57	48							
10/ 9	3.6	2.5	.1																52	52	57	54							
8/ 7	1.0	3.2																	35	35	29	56							
6/ 5	1.0	3.3																	36	36	43	38							
4/ 3	1.2	3.3																	38	38	39	26							
2/ 1	1.3	3.6																	41	41	42	41							
0/ -1	2.9	.4																	27	27	37	28							
-2/ -3	3.1	.4																	29	29	32	25							
-4/ -5	2.4	.1																	21	21	21	37							
-6/ -7	3.0	.1																	26	26	26	34							
-8/ -9	2.3																		19	19	19	32							
-10/-11	1.5																		13	13	13	31							
-12/-13	1.5																		13	13	13	19							
-14/-15	2.0																		17	17	17	19							
-16/-17	1.2																		10	10	10	15							
-18/-19	1.2																		10	10	10	14							
-20/-21	.6																		5	5	5	14							
-22/-23																						18							
-24/-25	.2																		2	2	2	10							
-26/-27																						8							
-28/-29																						4							
-30/-31																						2							
Element (X)	Σ x²		Σ x		Σ x²		Σ x		Σ x²		Σ x		Σ x²		Σ x		Σ x²		Σ x		Σ x²		Σ x						
Rel. Hum.																													
Dry Bulb																													
Wet Bulb																													
Dew Point																													
Mean No. of Hours with Temperature																													
																							≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total

FORM 0-26-5 (OL A) JUL 64

USAFETAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

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YEARS

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0600-0800
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

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MONTH

PAGE 1 0900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

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0900-1100
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94826 K I SAWYER AFB MI

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STATION

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1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
50/ 49						.1												1	1																
48/ 47						.1												1	1																
46/ 45					.1													1	1																
44/ 43					.2													2	2																
42/ 41				.4	.2													5	5	1															
40/ 39			.1	.5	.1	.1												7	7																
38/ 27	.1		.1	.5	.2													8	8	3	1														
36/ 35	.2	.1	.7	.4	.2													14	14	9	2														
34/ 33		1.0	1.3	.5														23	23	11															
32/ 31		1.4	1.1	.8	.1													29	29	20	1														
30/ 29	.1	3.0	2.3	.1														46	46	35	10														
28/ 27	.4	3.6	1.9	.7														55	55	45	19														
26/ 25	.1	6.1	2.0	.4														72	72	60	26														
24/ 23	.5	2.7	2.5	.4														51	51	74	32														
22/ 21	.2	4.4	3.6	.1														70	70	40	44														
20/ 19	.8	5.1	2.9	.2														76	76	79	53														
18/ 17	.4	5.6	1.5															63	63	86	52														
16/ 15		5.7	1.0															56	56	68	48														
14/ 13	.2	3.3	1.2															40	40	57	44														
12/ 11	.1	4.6	.6															45	45	38	73														
10/ 9	.5	5.0	.2															48	49	47	60														
8/ 7		4.0	.1															35	35	50	57														
6/ 5	.1	3.0																26	26	34	54														
4/ 3	.6	2.6																27	27	27	38														
2/ 1		2.5																21	21	22	32														
0/ -1	.4	.2																5	5	20	30														
-2/ -3	.1	.6																6	7	5	39														
-4/ -5	.2																	2	3	4	31														
-6/ -7	.1																	1	1	1	29														
-8/ -9	.4																	3	3	3	17														
-10/-11																					13														
-12/-13	.4																	3	3	3	16														
-14/-15																					8														
-16/-17																					3														
Element (X)	ΣX ²			ΣX			Σ			Σ			No. Obs.			Mean No. of Hours with temperature																			
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total													
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

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PAGE 1 1500-1700

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
56/ 55								.1										1	1				
54/ 53							.2											2	2				
52/ 51								.1										1	1				
50/ 49							.1											1	1				
48/ 47							.1											1	1				
46/ 45					.1	.2												3	3				
42/ 41				.5		.4												7	7	3			
40/ 39				.9	.4	.2												13	13	1			
38/ 37		.4	.1	.9	1.1													21	21	3			
36/ 35		.6	.2	.5														11	11	10			
34/ 33		.6	1.1	.8														21	21	19	3		
32/ 31		1.3	1.1	.5	.1													25	25	25	3		
30/ 29	.4	2.8	2.1	.7														51	52	38	10		
28/ 27	.1	5.3	3.1	1.1														81	81	49	15		
26/ 25	.1	2.8	3.7	.4														59	59	63	20		
24/ 23	.5	2.7	3.9	.5														64	64	68	44		
22/ 21	.1	4.1	3.2	.2														65	65	54	46		
20/ 19	.8	4.1	2.5	.2														65	65	35	57		
18/ 17	.2	4.3	2.4	.1														59	59	74	44		
16/ 15	.2	5.0	2.1															62	62	67	55		
14/ 13	.1	4.0	1.3															46	46	48	54		
12/ 11	.2	3.2	.7															35	35	55	63		
10/ 9	.4	5.4	.2															51	51	47	69		
8/ 7		3.4	.2															31	31	39	56		
6/ 5		2.2																19	19	33	49		
4/ 3	.5	3.2																31	31	23	36		
2/ 1		.8																7	7	24	45		
0/ -1																				5	27		
-2/ -3																					24		
-4/ -5	.4	.4																6	6	6	39		
-6/ -7																					21		
-8/ -9	.5																	4	4	4	25		
-10/ -11	.2																	2	2	2	8		
-12/ -13																					11		
Element (X)	ΣX ²		ΣX		X	e _x	No. Obs.		Mean No. of Hours with Temperature														
Rel. Hum.									≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total								
Dry Bulb																							
Wet Bulb																							
Dew Point																							

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

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K I SAWYER AFB MI

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1500-1700
HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
-14/-15																						6
-16/-17																						3
-18/-19																						3
-22/-23																						3
-24/-25																						1
-26/-27																						2
-30/-31																						2
-34/-35																						1
TOTAL	4.7	56.8	27.9	7.3	1.7	.8	.5	.2											845	846		845

PSYCHROMETRIC SUMMARY

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PAGE 1 1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point														
52/ 51							.2											2	2															
48/ 47						.1												1	1															
46/ 45						.1												1	1															
44/ 43				.1	.1													2	2															
42/ 41					.1													1	1															
40/ 39				.2	.2													4	4	2														
38/ 37	.1	.2	.1	.5	.2													10	10	4														
36/ 35			.6	.8	.1													13	13	4	2													
34/ 33		.6	1.2															15	15	6	1													
32/ 31		.9	.6	.1														14	14	18														
30/ 29	.8	1.4	1.4	.1														32	32	37	7													
28/ 27	.4	5.8	1.5															65	65	27	20													
26/ 25	.5	4.3	2.0	.4														60	60	64	70													
24/ 23	.4	3.6	2.6	.2														57	57	52	34													
22/ 21	.6	4.6	1.1	.1														54	54	56	45													
20/ 19	1.1	5.3	2.4															74	74	78	58													
18/ 17	.6	5.1	1.2															58	58	59	43													
16/ 15	.5	4.6	1.1															52	52	69	52													
14/ 13	1.1	3.3	.5															41	41	50	51													
12/ 11	1.1	4.9	.6															55	55	44	54													
10/ 9	.8	5.3	.2															54	54	55	74													
8/ 7	.4	4.9																44	44	55	39													
6/ 5	.4	2.8																27	27	45	42													
4/ 3	.7	2.8																30	30	23	47													
2/ 1	.7	2.2																25	25	33	44													
0/ -1	1.5	.2																15	15	23	37													
-2/ -3	.6	.7																11	11	12	34													
-4/ -5	.8	.4																10	10	10	23													
-6/ -7	.8	.1																8	8	9	22													
-8/ -9	.4																	3	3	3	24													
-10/-11	.6																	5	5	5	22													
-12/-13																					17													
-14/-15	.1																	1	1	1	17													
-16/-17	.1																	1	1	1	7													
Element (X)	ΣX ²			ΣX			X̄			s _x			No. Obs.			Mean No. of Hours with Temperature																		
Rel. Hum.																≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb																																		
Wet Bulb																																		
Dew Point																																		

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

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1800-2000
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

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PAGE 1 2100-2300

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
42/ 41										.1									1	1															
40/ 39		.2								.1									3	3															
38/ 37		.1	.2		.1														4	4	2														
36/ 35			.6	.1	.1														7	7	1	2													
34/ 33			.5	.5															8	8	4	1													
32/ 31		.8	.2	.1															10	10	9														
30/ 29	.7	2.4	.8																33	34	21	4													
28/ 27	.6	4.2	1.3																51	51	34	13													
26/ 25	.4	5.1	.8																53	53	56	22													
24/ 23		3.2	.8																34	34	49	26													
22/ 21	.2	5.0	.2																46	47	44	33													
20/ 19	2.4	3.8	.1																53	53	57	55													
18/ 17	1.7	5.5	.7																66	66	62	46													
16/ 15	.8	6.6	.8																70	70	63	62													
14/ 13	.8	4.4	.4																47	47	53	50													
12/ 11	1.5	4.0																	47	47	53	63													
10/ 9	1.9	3.1																	42	42	53	56													
8/ 7	.8	4.2																	42	42	31	36													
6/ 5	.5	3.9																	37	37	43	30													
4/ 3	1.2	3.2																	37	37	40	38													
2/ 1	.8	3.2																	34	34	37	46													
0/ -1	2.0	.4																	20	20	30	32													
-2/ -3	1.7	1.1																	23	23	22	47													
-4/ -5	1.2	.6																	15	15	18	26													
-6/ -7	2.6																		22	22	23	22													
-8/ -9	1.2																		10	10	10	26													
-10/-11	1.4																		12	12	12	23													
-12/-13	.5																		4	4	4	16													
-14/-15	.7																		6	6	6	23													
-16/-17	.2																		2	2	2	15													
-18/-19	.5																		4	4	4	8													
-20/-21																						7													
-22/-23																						1													
-24/-25																						3													
Element (X)	ΣX'			ΣX			Σ			Σ _n			No. Obs.			Mean No. of Hours with Temperature																			
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total													
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

FORM 0-26-5 (OL A) REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

9-78

FEB

STATION

STATION NAME

YEARS

MONTH

PAGE 2

2100-2300
HOURS (L. S. T.)

[illegible]

USAFETAC, FORM 0-26-5 (OL 11) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

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MONITOR

ALL
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

9-78

YEARS

MONTH

PAGE 1

0000-0200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL																		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																
46/ 45				.2														2		2		2																			
44/ 43			.1															1		1		1																			
42/ 41		.1		.2														3		3		3																			
40/ 39	.2	.9	.1	.1														12	12	10	2	12	10	2																	
38/ 37	.6	.3	.9	.3														20	20	11	7	20	11	7																	
36/ 35	.3	1.8	1.4	.8														40	40	9	9	40	9	9																	
34/ 33	.5	2.4	1.2	.2														40	40	41	13	40	41	13																	
32/ 31	.2	3.0	1.7	.2														48	48	43	11	48	43	11																	
30/ 29	1.7	4.0	1.0	.3														65	65	72	46	65	72	46																	
28/ 27	1.3	6.1	1.1															79	79	61	68	79	61	68																	
26/ 25	1.4	6.3	1.7	.1														88	90	81	37	88	90	81	37																
24/ 23	.3	3.5	1.1	.2														47	47	76	51	47	76	51																	
22/ 21	.1	3.3	.5															37	37	45	56	37	45	56																	
20/ 19	1.9	3.0	.6															52	52	57	65	52	57	65																	
18/ 17	.2	6.4	.6															67	67	43	54	67	43	54																	
16/ 15	.3	3.5	.9															43	44	65	47	43	44	65	47																
14/ 13	.6	4.3	.3															49	49	49	50	49	49	50																	
12/ 11	.5	2.8	.2															33	33	51	54	33	33	51	54																
10/ 9	1.0	3.5																41	41	33	43	41	41	33	43																
8/ 7	.6	2.4																28	28	30	54	28	28	30	54																
6/ 5	.8	1.9																25	25	32	42	25	25	32	42																
4/ 3	1.3	2.3																33	33	32	26	33	33	32	26																
2/ 1	.1	2.3																22	22	22	30	22	22	22	30																
0/ -1	1.5	.3																17	17	26	31	17	17	26	31																
-2/ -3	.8	.3																10	10	13	22	10	10	13	22																
-4/ -5	.5	.2																7	7	6	28	7	7	6	28																
-6/ -7	.4																	4	4	5	21	4	4	5	21																
-8/ -9	1.0																	9	9	9	20	9	9	9	20																
-10/ -11	.2																	2	2	2	9	2	2	2	9																
-12/ -13																					6				6																
-14/ -15	.2																	2	2	2	4	2	2	2	4																
-16/ -17	.1																	1	1	1	6	1	1	1	6																
-18/ -19																					5				5																
-20/ -21																					7				7																
Element (X)	Σ X ²		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ																
Rel. Hum.																																									
Dry Bulb																																									
Wet Bulb																																									
Dew Point																																									
																		Mean No. of Hours with Temperature																							
																		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																	

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVERSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

9-78

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STATION

STATION NAME

YEARS

MONTH

PAGE 2

000)-0200

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836
STATIC

K I SAWYER AFB MI

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STATION

STATION NAME

YEARS

MONTH

PAGE 1

030)-0500

HOURS (L, S, T,)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
44/ 43			.1	.1														2	2					
42/ 41		.5	.1															6	6					
40/ 39	.3	.3	.1															7	7		3			
38/ 37	.1		.5	.1														7	7		6			
36/ 35	.6	1.5	.6															26	26		5			
34/ 33	.6	2.6	.6	.2														40	40	2	17			
32/ 31	.4	3.6	1.5	.3														54	54	4	16			
30/ 29	1.5	4.9	.5	.1														65	65	7	35			
28/ 27	2.3	4.2	.8	.2														69	59	6	71			
26/ 25	1.2	6.7	.3	.1														77	79	5	47			
24/ 23	.6	4.0	1.0	.1														53	54	7	33			
22/ 21	.2	4.3	.2															44	44	5	35			
20/ 19	1.7	3.1	.2															47	47	5	63			
18/ 17	.8	4.1	.6															51	51	4	83			
16/ 15	.3	6.8	.2															68	68	4	36			
14/ 13	.5	3.8	.1															41	41	6	31			
12/ 11	1.0	3.1																38	38	4	64			
10/ 9	.5	3.9																41	41	3	41			
8/ 7	.4	1.8																21	21	3	47			
6/ 5	.2	2.9																29	29	2	36			
4/ 3	1.8	1.7																33	33	4	34			
2/ 1	.3	2.4																25	25	2	32			
0/ -1	2.8	.3																29	29	4	34			
-2/ -3	1.4	.2																15	15	1	21			
-4/ -5	1.1	.2																12	12	1	26			
-6/ -7	1.0																	9	9		25			
-8/ -9	.2																	2	2		27			
-10/-11	.9																	8	8		17			
-12/-13	.1																	1	1		11			
-14/-15	.1																	1	1		8			
-16/-17	.2																	2	2		7			
-18/-19																					2			
-20/-21	.3																	3	3		6			
-22/-23	.1																	1	1		2			
Element (X)	Σx²		Σx		X̄		σ _x		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

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GE 2 0300-0500
HOURS (L. S. T.)

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

9-70

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0600-0800

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
44/ 43		.4																4	4	2					
42/ 41		.2			.1													3	3	3	4				
40/ 39		.3																3	3	2	3				
38/ 37	.2	.9	.1															11	11	8	2				
36/ 35	.4	.8	.6															17	17	12	9				
34/ 33	.5	3.0	.5															38	38	18	13				
32/ 31	.5	4.0	.9	.1														51	51	49	16				
30/ 29	1.8	4.5	1.0															68	68	67	40				
28/ 27	3.0	3.7	.5	.4														71	71	63	72				
26/ 25	.9	6.0	1.0															72	75	51	36				
24/ 23	.3	4.2	.5															47	47	75	28				
22/ 21	1.0	3.9	.1															46	46	56	39				
20/ 19	1.1	3.8	.5															50	50	47	63				
18/ 17	.6	3.4	.9															45	45	50	60				
16/ 15	.6	3.9																42	44	41	48				
14/ 13	.8	4.7																50	50	48	37				
12/ 11	.8	2.5																30	30	42	45				
10/ 9	.8	4.2																46	46	38	47				
8/ 7	1.2	2.6																35	35	45	39				
6/ 5	.3	2.7																28	28	27	31				
4/ 3	1.1	3.0																38	38	33	44				
2/ 1	.8	2.4																29	29	38	42				
0/ -1	2.7	.4																29	29	34	28				
-2/ -3	1.9	.8																25	25	26	14				
-4/ -5	.6																	6	6	9	21				
-6/ -7	1.2																	11	11	11	35				
-8/ -9	1.6																	1	15	15	33				
-10/-11	.3																	3	3	3	26				
-12/-13	.2																	2	2	2	5				
-14/-15	.4																	4	4	4	19				
-16/-17	.3																	3	3	3	4				
-18/-19																					6				
-20/-21	.1																	1	1	1	2				
-22/-23	.1																	1	1	1	6				
Element (X)	Σ X²		Σ X		Σ	Σ	No. Obs.		Mean No. of Hours with Temperature										Total						
Rel. Hum.									≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F											
Dry Bulb																									
Wet Bulb																									
Dew Point																									

PSYCHROMETRIC SUMMARY

MAR
MONTH

PAGE 2 0600-0800
HOURS (L. S. T.)

[illegible]

94836 K I SAWYER AFB MI
STATION STATION NAME

49-78

MAR
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PAGE 1

0900-1100
HOURS (L. S. T.)

0-26.5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

MAR

YEARS

MONTH

0900-1100

HOURS 11-5-7-1

[illegible]

PSYCHROMETRIC SUMMARY

MAR
MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

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USAFETAC FORM 0-26.5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

69-78

MAR

STATION

STATION NAME

YEARS

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PAGE 2

1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB HI
STATION STATION NAME

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YEARS

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MONTE

PAGE 1 1500-1700

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

49-78

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 2

1500-1700

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836
STATION

K I SAWYER AFB MI

49-78

MAR

PAGE 1

1800-2000
HOURS (L. S. T.)

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PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

69-76

YEARS

MAR
MONTH

PAGE 2 1800-2000
HOURS (L. S. T.)

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

9-78

MAR
MONTH

PAGE 1 2100-2300
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point						
46/ 45				.1														1			1					
44/ 43			.1	.4	.1													6			6					
42/ 41			.3	.3	.3													9			9					
40/ 39		1.0	.9	.3														20			20	11		1		
38/ 37	.4	.5	1.2	.3	.2													25			25	15		9		
36/ 35	.1	1.7	2.2	.6														43			43	20		7		
34/ 33	.8	2.7	1.3	.3														47			47	47		15		
32/ 31	.2	4.0	2.6	1.3														75			75	52		25		
30/ 29	1.5	4.9	1.1	.2														71			71	72		53		
28/ 27	2.2	4.2	1.4	.3														75			75	88		61		
26/ 25	.6	5.6	1.0	.6														73			73	69		58		
24/ 23	1.0	3.6	2.1	.2														63			64	74		56		
22/ 21	.3	3.9	1.2	.2														52			52	56		59		
20/ 19	.9	4.0	1.0															54			55	70		41		
18/ 17	.5	5.5	1.0															65			65	53		66		
16/ 15	.5	6.0	.9															68			71	61		51		
14/ 13	.5	1.7	.3															24			24	63		59		
12/ 11	.4	2.8	.1															31			32	31		42		
10/ 9	.2	3.0																30			30	29		72		
8/ 7	.3	2.2																23			23	30		46		
6/ 5	.2	1.4																15			15	22		29		
4/ 3	.4	.8																11			11	13		24		
2/ 1	.2	1.6																17			17	13		38		
0/ -1	.4	.2																6			6	14		22		
-2/ -3	.2	.5																7			7	6		24		
-4/ -5	.1	.1																2			2	3		17		
-6/ -7	.3																	3			3	4		15		
-8/ -9	.6																	6			6	6		6		
-10/-11	.2																	2			2	2		3		
-12/-13																								2		
-14/-15																								8		
-16/-17																								6		
-18/-19																								5		
-20/-21																								4		
Element (X)	Σ X ²		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.																										
Dry Bulb																										
Wet Bulb																										
Dew Point																										

FORM 0-26.5 (OL A) JUL 64
USAFETAC
REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

9-78

 MAR
MONTH

PAGE 2

2100-2300
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

9-78

MAR
MONTH

PAGE 1

ALL

ALL
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
60/ 59							.0											2	2					
58/ 57							.0	.0	.0									4	4					
56/ 55								.0										1	1					
54/ 53			.0						.0									3	3					
52/ 51			.0		.0	.1	.0	.1										14	14					
50/ 49			.0	.0	.1	.0	.0	.0										19	19	1				
48/ 47			.0	.1	.3	.0	.1											35	35	4				
46/ 45		.1	.0	.2	.2	.1	.0											39	39	8				
44/ 43	.0	.2	.3	.4	.4	.1												100	100	19				
42/ 41	.0	.4	.3	.4	.3	.1	.0											115	115	34				
40/ 39	.1	.9	.8	.4	.3	.1	.0											202	202	140				
38/ 37	.3	.9	.9	.8	.2	.1												234	234	159				
36/ 35	.3	1.4	1.4	.7	.2	.1												312	312	222				
34/ 33	.5	2.5	1.4	.8	.3	.0												410	414	312				
32/ 31	.4	3.6	1.9	.9	.2	.0												525	530	476				
30/ 29	1.4	3.9	1.8	.7	.1													586	587	599				
28/ 27	1.5	3.9	2.4	.9	.1													652	655	549				
26/ 25	.6	4.8	1.9	.8	.1													597	605	570				
24/ 23	.4	3.9	1.5	.5														465	468	670				
22/ 21	.3	3.4	1.5	.3														405	406	511				
20/ 19	1.0	3.4	1.1	.1														406	409	454				
18/ 17	.4	3.7	1.2															391	392	435				
16/ 15	.3	3.9	1.1															390	396	399				
14/ 13	.4	2.8	.4															264	264	424				
12/ 11	.3	2.1	.2															196	197	256				
10/ 9	.4	2.8	.0															240	240	207				
8/ 7	.3	1.5	.1															147	148	216				
6/ 5	.2	1.3	.0															113	113	135				
4/ 3	.6	1.2																139	139	147				
2/ 1	.2	1.3																110	110	111				
0/ -1	1.0	.2																91	91	136				
-2/ -3	.6	.3																64	64	70				
-4/ -5	.3	.1																30	30	34				
-6/ -7	.4																	28	28	31				
Element (X)	Σx²			Σx			X	Σx			No. Obs.			Mean No. of Hours with Temperature										
Rel. Hum.														≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb																								
Wet Bulb																								
Dew Point																								

PSYCHROMETRIC SUMMARY

94836
STATI

K I SAWYER AFB MI

9-78

HAR
MONTH

PAGE 2

ALL

HOURS (L. S. T.)

[illegible]

AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

MOY:

0000-0200

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

9-7 is

APR

STATION

STATION NAME

YEARS

$$\frac{\text{mol}}{\text{mol}^3 \cdot \text{h}}$$

PAGE 2

0000-0200
HOURS (L. S. T.)

[illegible]

AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION NAME

9-75

YEARS:

MONTH

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

9-72

YEARS

APR
MON

PAGE 2 0300-0500
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

. 9-7₃

YEARS

APR

PAGE 1 0600-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
66/ 65			.1															1	1													
62/ 61			.1															1	1		1											
60/ 59			.1															1	1													
58/ 57		.1		.1														2	2	2	2											
56/ 55		.7	.1															7	7	4	3											
54/ 53		.8	.1	.1		.1												10	10	5	5											
52/ 51	.4	.2	.2	.3		.1	.1											13	13	14	8											
50/ 49	.3	.1	.4	.1	.1													10	10	3	9											
48/ 47	.7	1.4	.2	.1	.2													24	24	15	10											
46/ 45	1.7	.2	.1	.3														21	21	20	9											
44/ 43	.8	.4			.1	.3												15	15	15	13											
42/ 41	1.7	.2	1.0	.2														28	28	20	16											
40/ 39	.6	1.2	1.4	.4	.2	.2												37	37	20	22											
38/ 37	.3	1.9	2.3	1.2	.3													55	55	24	13											
36/ 35	.7	3.3	2.6	1.2	.2	.1												73	73	53	16											
34/ 33	.7	4.6	3.0	1.3	.1													87	87	75	33											
32/ 31	1.1	3.9	2.5	.4														71	71	95	58											
30/ 29	1.6	5.6	3.2	.3														96	96	100	56											
28/ 27	1.4	7.2	2.7	.1														103	103	91	91											
26/ 25	.1	3.1	1.4															42	42	84	71											
24/ 23	.1	3.1	.9															37	37	57	61											
22/ 21	.3	3.5	.2															36	37	42	70											
20/ 19	1.0	2.8	.3															46	46	46	66											
18/ 17	.6	1.7	.1															21	21	36	53											
16/ 15	.1	.6																6	7	17	55											
14/ 13	.1	1.6																15	16	12	49											
12/ 11	.1	1.0																10	10	12	25											
10/ 9		1.1																10	10	10	22											
8/ 7	.1	1.0																10	10	7	14											
6/ 5	.1	.2																3	3	9	7											
4/ 3		.6																5	5	3	14											
2/ 1		.1																1	1	4	10											
0/ -1																				1	2											
-2/ -3																					5											
Element (X)	Σx²			Σx			R	s _x			No. Obs.			Mean No. of Hours with Temperature																		
Rel. Hum.														≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb																																
Wet Bulb																																
Dew Point																																

PSYCHROMETRIC SUMMARY

9-78

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 2

0900-1100

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
4/ 3																						9
2/ 1																						2
-2/ -3																						1
-6/ -7																						1
-8/ -9																						2
TOTAL	5.3	27.0	25.6	15.7	12.1	6.7	4.0	2.6	.9	.2									900	900	900	
																			900	900		
											</											

0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

1974

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1200-1400

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point					
78/ 77											.1							1	1							
76/ 75							.1			.1		.1	.1					4	4							
74/ 73						.1	.2			.1								4	4							
72/ 71							.3		.1	.1	.1							6	6							
70/ 69					.2	.3	.2	.1			.1							9	9							
68/ 67				.2	.2	.2	.3	.1	.2	.1	.2							15	15							
66/ 65		.1			.3	.3		.1		.2								10	10	2						
64/ 63				.3	.3	.1	.3	.2	.3	.1								16	16	2						
62/ 61		.1	.1		.1	.4	.7	.1	.3	.2	.1							20	20	9	1					
60/ 59		.2			.2	.2	.4	.2	.4	.3								19	19	10	3					
58/ 57		.3		.1	.1	.4	.2	.6	1.4									29	29	13	7					
56/ 55		.1	.1	.1	.1	.8	.8	.6	.7									29	29	13	7					
54/ 53		.4		.3	.1	.3	.6	1.2										27	27	10	7					
52/ 51		.3	.1		.4	.6	.7	.8	.1									27	27	16	10					
50/ 49		.1	.3	.3	.4	1.7	1.7	.4										45	45	24	10					
48/ 47		.2		.3	1.8	1.2	1.6	.3										49	49	16	10					
46/ 45		.7		.9	1.3	2.3	1.4	.1										61	61	28	6					
44/ 43		.8	.1	.7	1.1	1.3	.4											40	40	33	16					
42/ 41	.3	.9	.8	1.6	1.1	.3												45	45	55	12					
40/ 39	.4	1.8	1.3	1.8	1.0	.4												61	61	83	29					
38/ 37		1.1	.9	1.0	.9	.4												39	39	78	24					
36/ 35	.2	1.2	1.9	2.0	.2	.3												53	53	79	27					
34/ 33	.6	2.1	3.0	.9	.8													66	66	78	30					
32/ 31	1.3	3.1	3.0	.4	.2													73	73	88	67					
30/ 29	.3	2.4	2.2	.6	.1													51	51	77	76					
28/ 27	.6	1.1	1.8	.8														38	38	62	81					
26/ 25	.3	1.0	1.1	.4														26	26	45	76					
24/ 23		.9	.8															15	15	25	68					
22/ 21		.7	.3															9	9	26	71					
20/ 19		.3	.1															4	4	15	68					
18/ 17		.4	.1															5	5	3	48					
16/ 15			.1															1	1	6	46					
14/ 13		.1	.1															2	2	1	41					
12/ 11		.1																1	1	2	14					
Element (X)	Σ X ²		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F							Total	
Dry Bulb																										
Wet Bulb																										
Dew Point																										

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

9-78

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 2

1200-1400

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

49-75

ДРК

PAGE 1 1500-1700
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
80/ 79											.1							1	1															
76/ 75							.1	.2	.1	.1								3	3															
74/ 73						.1	.2	.2	.1									5	5															
72/ 71						.2	.2	.1	.1		.1							7	7															
70/ 69					.1	.2	.3		.1	.1								8	8															
68/ 67		.1	.1	.1	.3	.2		.2										10	10															
66/ 65			.1		.1	.1	.2	.3	.2	.2	.1	.1						14	14	2														
64/ 63		.1		.1		.2	.4	.4	.3	.2								17	17	5	2													
62/ 61		.3	.1		.3	.3		.1	1.0	.7								26	26	10	2													
60/ 59		.1		.2	.2	.1	.2	.1	.7	.2								17	17	13	4													
58/ 57		.3	.4		.9	.2	.2	.2	.4	.1								26	26	7	4													
56/ 55		.1		.1	.3	.2	1.4	.6	.4									29	29	8	8													
54/ 53		.2	.1	.2	.2	1.2	.4	1.0	.3									34	34	18	7													
52/ 51		.1	.4	.1	.6	1.0	1.1	.9	.1									39	39	14	11													
50/ 49			.7		.2	.6	2.4	.3										38	38	21	9													
48/ 47		.3	.1	.2	1.2	1.8	2.2											53	53	19	7													
46/ 45		.1		1.1	1.6	1.9	1.4	.2										57	57	38	8													
44/ 43		.8	.2	.4	1.7	.6	.1											34	34	38	20													
42/ 41		.6	.9	.9	1.4	.8	.1											42	42	45	21													
40/ 39	.6	1.2	1.6	1.6	.8	.6												56	56	76	23													
38/ 37	.2	1.0	2.3	1.7	1.2	.2												60	60	85	9													
36/ 35		.8	1.4	1.9	.3													40	40	72	23													
34/ 33	.9	3.6	1.7	1.1	.2													67	67	85	35													
32/ 31		3.9	1.8	1.1	.4													65	65	76	70													
30/ 29	.2	2.4	2.4	.4	.1													51	51	94	63													
28/ 27	.3	.9	2.4	.7														39	39	41	101													
26/ 25	.4	.6	1.3	.1														22	22	50	86													
24/ 23		.6	1.6															19	19	28	42													
22/ 21		.7	.1															7	7	24	72													
20/ 19		.3	.2															5	5	16	67													
18/ 17		.1	.2															3	3	4	41													
16/ 15		.2	.3															5	5	4	65													
14/ 13		.1																1	1	7	32													
12/ 11																					25													
Element (X)	Σ x ²			Σ x			Σ			Σ x			No. Obs.			Mean No. of Hours with Temperature																		
Rel. Hum.																≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total						
Dry Bulb																																		
Wet Bulb																																		
Dew Point																																		

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

69-78

YEARS

APR
MONTH

PAGE 2 1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

9-7A

YEARS

ADP
MONTH

PAGE 1 1800-2000

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

9-78

YEARS

APR
MONTH

PAGE 2

1800-2600
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836	K I SAWYER AFB MI
STATION	STATION NAME

9-73

YEARS

APR
MONTH

PAGE 1 2100-2300
HOURS 11-5-7-1

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

- 9-7a

YEARS

APR

MONTH

PAGE 2 2100-2300
H2185 (1, 5, 7, 1)

200-250
HOURS: 5-7

[illegible]

PSYCHROMETRIC SUMMARY

94836

K I SAWYER AFB MI

9-7b

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL

HOURS 11 5 7

[illegible]

PSYCHROMETRIC SUMMARY

<u>94836</u>	<u>K I SAWYER AFB HI</u>
STATION	STATION NAME

59-72

YEARS

APR
MON: 11

PAGE 2

ALL
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94636 K I SAWYER AFB MI
STATION STATION

- 9-78

YEARS

НАУ

MONITOR

PAGE 1 0000-0200
HOURS (L. S. T.)

MOUSE: 5.71

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

9-78

YEARS

4AY

PAGE 1 0300-0500
40185 (1-5-7-1)

0300-0500

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
70/ 69				.1														1	1																
68/ 67			.1		.1													2	2																
66/ 65		.1	.2			.1												4	4																
64/ 63		.5																5	5	5															
62/ 61		.6	.2	.1		.1	.2											12	12	5	10														
60/ 59		1.9	.2	.1				.1	.1									23	23	10	7														
58/ 57		2.4	.3	.3	.4													32	32	24	11														
56/ 55	.2	1.2	.5	.6	.3													27	27	29	27														
54/ 53		1.1	1.5	.2	.1	.3												30	30	13	16														
52/ 51	.3	.9	1.3	.4	.9		.1											36	36	26	14														
50/ 49	.2	1.4	2.0	1.7	.3	.3												56	56	36	19														
48/ 47	.2	2.3	1.2	1.5	.3	.1												52	52	35	22														
46/ 45	.5	2.8	1.8	.9	.9	.2												66	66	50	53														
44/ 43	.3	2.9	1.4	.8	.2	.2												54	54	61	39														
42/ 41	.5	2.5	1.6	1.2														54	54	61	55														
40/ 39	1.3	3.2	2.0	.5	.3													69	69	69	49														
38/ 37	1.3	2.6	2.6	.5														65	65	65	64														
36/ 35	1.0	2.9	2.0	.3														58	58	62	72														
34/ 33	.1	3.2	2.8	.3														60	60	60	37														
32/ 31	1.0	4.7	3.7	.3														90	90	74	54														
30/ 29	.1	3.4	1.2	.2														46	46	80	80														
28/ 27	.1	3.0	1.6															44	44	54	70														
26/ 25		1.8	.3															20	20	41	60														
24/ 23		1.2																11	11	28	44														
22/ 21		.6																6	6	12	26														
20/ 19	.2	.2																4	4	6	54														
18/ 17		.2																2	2	3	22														
16/ 15																					17														
14/ 13																					6														
12/ 11																					1														
TOTAL	7.4	47.8	28.7	10.2	4.0	1.5	.2	.1										929	929		929														
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.	5879853	72887	78.5	13.185	929	≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	1662254	38194	41.1	9.956	929		22.3	.3				93																							
Wet Bulb	1455747	35681	38.4	9.588	929		29.8					93																							
Dew Point	1221358	32140	34.6	10.859	929		43.4					93																							

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

9-75

YEARS

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PAGE 1 0600-0800

[illegible]

PSYCHROMETRIC SUMMARY

74836 K I SAWYER AFB MI
STATION STATION

9-78

YEARS

MAY
MONTH

PAGE 1 0900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K. I SAWYER AFB MI
STATION STATION NAME

9-70

YEARS

MAY
MONTH

PAGE 2 0900-1100
HOURS (L. S. T.)

[illegible]

AIR WEATHER SERVICE/PAC

PSYCHROMETRIC SUMMARY

MONTH

1200-1400

2200 240
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

9-78

НАУ

STATION

STATION NAME

YEARS

MONTH

1200-1400

11 JURS (L. S. Y.)

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

A)

FORM 11

USAFETAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

9-78

MAY

PAGE 1 1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836
STAT

K I SAWYER AFB MI

49-78

MAY

MONTH

PAGE 2

1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

• 9-78

YEARS

MAY
MONTH

PAGE 1

1800-2000
HOURS (i.e. 5-7)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

2-7c

MAY
MONTH

YEARS

PAGE 2 1800-2000
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

49-75

YEARS

44 Y
MONTH

PAGE 2

2100-2300

NOV 12 1965

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

9-75

MAY

STATION

STATION NAME

YEARS

MOYTH

PAGE 1

ALL

HOURS 12 5 1.1

[illegible]

PSYCHROMETRIC SUMMARY

94836 K. I SAWYER AFB MI
STATION STATION NAME

9-70

YEARS

4AY
MONTH

PAGE 2

ALL

HOURS (L, S, T):

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
26/ 25		.6	.2															59	59	139	427											
24/ 23		.3																19	19	70	265											
22/ 21		.2																12	12	24	271											
20/ 19	.1	.1																9	9	15	243											
18/ 17		.0																2	2	3	117											
16/ 15																					87											
14/ 13																					24											
12/ 11																					7											
10/ 9																					4											
TOTAL	4.1	25.9	19.0	14.1	10.6	7.3	6.1	5.1	3.2	2.2	1.1	.7	.3	.1	.0				7439		7439											

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB HI
STATION STATION NAME

9-7c

YEARS

1934

PAGE 1 0300-0500

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
72/ 71						.2												2	2																
70/ 69				.1		.1												2	2																
68/ 67			.3	.6	.2	.4												14	14																
66/ 65	.1	.7	.2	.7														15	15	10	3														
64/ 63	.1	1.9	.4	.4	.1	.1												28	28	16	19														
62/ 61		2.0	.8	.6	.1													36	36	22	11														
60/ 59	.7	2.7	1.3	.2	.3	.1												48	48	44	28														
58/ 57	.1	3.5	1.8	.8	.2													57	60	37	29														
56/ 55	.6	3.5	2.3	.4	.1	.3												65	65	52	50														
54/ 53	.4	4.0	3.9	1.2														86	85	68	52														
52/ 51	1.1	5.2	2.9	.9	.1													92	92	81	71														
50/ 49	.1	5.1	2.9	.3														76	76	80	58														
48/ 47	.3	4.7	1.0	1.4	.1													68	68	98	84														
46/ 45	1.1	5.1	2.6	.7														85	85	90	97														
44/ 43	.3	2.2	2.6	.1														47	47	52	66														
42/ 41		3.8	.9	.2														44	44	59	63														
40/ 39	.1	2.6	1.7	.1														40	40	55	40														
38/ 37	.8	2.1	.9															34	34	43	55														
36/ 35	.3	2.0	.4															25	25	29	60														
34/ 33		1.3	.4															16	16	31	28														
32/ 31	.1	1.1																11	11	15	27														
30/ 29		.3																3	3	11	26														
28/ 27	.3																	3	3	4	21														
26/ 25																					8														
24/ 23																					1														
TOTAL	6.754	7.727	8.84	1.6	.7													897	900	897	897														
																</																			

PSYCHROMETRIC SUMMARY

59-78

YEARS

JUN

MONTH

PAGE 1 0600-0800
HOURS (L. S. T.)

HOURS 11 - 5 - T

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

29-78

YEARS

JUN
MON. H.

PAGE 1 0900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

JUN
MONTH

0900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

JUN
MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

[illegible]

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0-26-5 (01-A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

9-75

YEARS

JUN
MONTH

PAGE 2 1200-1400
HOURS (L. S. T.)

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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USAFETAC

PSYCHROMETRIC SUMMARY

94836
STAT.

K I SAWYER AFB MI

9-71

100

PAGE 2

1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

9-7c

YEARS

JUN
MCH TH

PAGE 1 1500-1700
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
94/ 93									.3	.2	.1	.1			.1	.1	.1	3	3															
90/ 89									.3	.2	.1	.1						7	7															
88/ 87									.3	.1		.4	.1					9	9															
86/ 85						.1	.2		.2	.4	.1	.2						12	12															
84/ 83						.1			.9	.4	.6	.3	.1					22	22															
82/ 81						.1			1.0	.4	1.0	1.1	.2	.2				37	37															
80/ 79	.1						.7		.4	.9	.9	.2	.2					31	31															
78/ 77				.3	.4	.2	.3		.6	1.0	.4	.2						32	32	2	1													
76/ 75					.8	.1	1.4	1.6	.7	.4		.2						47	47	5														
74/ 73				1.6	.1	.4	.2	1.1	.7	.3	.2	.1						43	43	9														
72/ 71	.1			.4	1.3	1.1	1.1	1.2	1.6	.1								63	63	9	2													
70/ 69	.1			.2	.7	1.7	1.3	1.6	1.0	.2								61	61	21	7													
68/ 67	.2	.8	.2	2.0	1.2	.7	2.1	.3	.6									73	73	48	12													
66/ 65	.8	.7	1.1	1.9	1.7	.3	.3	1.0										70	70	37	10													
64/ 63	.4	.9	.8	1.6	1.2	.6	.8	1.2	.2									69	69	80	37													
62/ 61	.6	1.2	.9	.6	.8	1.3	.8	.1										56	56	78	50													
60/ 59	.1	.6	.6	.3	.9	.4	.1	.2										29	29	90	24													
58/ 57	1.8	.4	.1	.9	.9	.4	.2	.1										44	44	95	44													
56/ 55	1.2	.4	.7	.8	.7	.4												38	38	83	72													
54/ 53	.7	.8	1.2	.3	.9	.6												40	41	59	91													
52/ 51	.8	.6	1.1	.4	.3	.1												30	30	39	78													
50/ 49	.1	.9	.4	.4	.2	.7	.1											26	26	77	56													
48/ 47	.2	.9	.2	.2	.2	.2	.2											18	18	55	65													
46/ 45	1.4	.2	.2	.1	.2													20	20	37	60													
44/ 43	.4	.8		-1														12	12	30	54													
42/ 41	.4																	4	4	17	60													
40/ 39																				19	38													
38/ 37	.1	.1																2	2	4	36													
36/ 35	.1																	1	1	5	31													
34/ 33																					29													
32/ 31																					16													
30/ 29																					7													
28/ 27																					9													
26/ 25																					4													
Element (X)	ΣX^2			ΣX			\bar{X}			σ_x			No. Obs.			Mean No. of Hours with Temperature																		
Rel. Hum.																≤ 0 F	≤ 52 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 9° F	Total												
Dry Bulb																																		
Wet Bulb																																		
Dew Point																																		

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

. 9-70

YEARS

JUN
MONTH

PAGE 1 1800-2000
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

9-78

YEARS

JUN
MONTH

PAGE 2 1800-2000

1500-2000
H2185 (1-5-7)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

9-75

YEARS

JUN
MONTH

PAGE 1 2100-2300
HOURS L. S. T. I

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

49-70

406

STATION

STATION NAME

YEARS

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PAGE 2

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PSYCHROMETRIC SUMMARY

44-70

YEARS

JUL
1952

PAGE 1 0900-1100
FBI - S. I.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

4836 K I SAWYER AFB MI

9-7

JUL

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0600-0800

HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
80/ 79						.1												1		1															
78/ 77				.1														1		1															
76/ 75			.1	.2														3		3															
74/ 73			.4	.5	.2													11		11															
72/ 71		.2	.9	.4	.1	.2	.1											18		18	4														
70/ 69		1.0	1.7	.9	.4	.2	.1											40		40	14														
68/ 67	.1	2.2	1.9	1.3	.2	.3		.1										57		57	27														
66/ 65	.2	2.8	1.7	1.1	.9	.2				.1								64		64	49														
64/ 63	.6	4.0	1.6	1.9	1.2	.3												90		90	65														
62/ 61	.3	4.1	3.8	1.6	1.0	.1	.1											102		102	67														
60/ 59	.3	4.4	2.9	1.5	.5	.2												92		92	61														
58/ 57	.5	3.9	3.0	2.3	.5	.2												97		97	109														
56/ 55	.2	4.8	3.1	1.8	.4													97		97	98														
54/ 53	.6	3.2	2.4	1.5	.1													73		73	110														
52/ 51	.3	2.5	1.9	.4														48		48	89														
50/ 49	.5	2.2	1.8	.4														46		46	73														
48/ 47	.4	2.5	1.5															41		41	55														
46/ 45		1.5	.8	.1														22		22	41														
44/ 43	.2	.8	.6															15		15	26														
42/ 41		.8	.1															8		8	12														
40/ 39		.2																2		2	13														
38/ 37		.1																1		1	3														
36/ 35		.1																1		1	1														
34/ 33																						3													
TOTAL	4.5	4.1	1.3	0.3	1.6	1.1	5.7	1.8		.3		.1										930		930											

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	6391418	76382	82.1	11.274	930	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Dry Bulb	3235428	54446	58.5	7.183	930			13.1	1.6			93
Wet Bulb	2896954	51510	55.4	6.879	930			4.5				93
Dew Point	2658750	49226	52.9	7.565	930			2.7				93

FORM 0-26-5 (OL A) 10-10-60

USAFETAC

PSYCHROMETRIC SUMMARY

94836 K. I SAWYER AFB MI

9-78

JUL

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

69-78

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STATION

STATION NAME

YEARS

MONTH

PAGE 1

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HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

121
MONT

PAGE 1

1200-1400
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

9-78

JUL

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL																										
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	*31	Dry Bulb	Wet Bulb	Dew Point																												
100/ 99												.2									2	2																										
98/ 97												.1									1	1																										
96/ 95												.1									2	2																										
94/ 93												.1									3	3																										
92/ 91											.2	.4	.1	.1	.3			.1			12	12																										
90/ 89							.1	.1			.1					.1					4	4																										
88/ 87						.1		.2	.5	.4						.1					13	13																										
86/ 85						.1		.4	1.0	.4	.1										19	19																										
84/ 83					.2	.1	.9	.6	.1	1.2	.3										32	32																										
82/ 81					.5	.5	1.5	.4	1.2	1.0	.3	.3									54	54																										
80/ 79					.5	1.5	.5	1.9	1.0	.5	.3	.3									62	62																										
78/ 77				.5	1.3	1.0	1.3	1.7	1.5	1.0	.2	.2									81	81	10																									
76/ 75			.9	.5	1.6	1.0	1.6	2.4	.9	.5	.2										89	89	9																									
74/ 73			.3	1.4	.9	1.3	.9	1.8	.8	.6											74	74	17	2																								
72/ 71			1.1	.3	.6	1.7	1.7	1.8	1.1												78	78	59	10																								
70/ 69		.2	.9	.9	1.5	2.3	.9	.8	1.0	.2											79	79	58	30																								
68/ 67		.3	.5	1.0	1.1	1.1	.9	.8	.8	.1											60	60	64	32																								
66/ 65	.1	.5	1.5	1.5	.8	1.3	.8	.1	.2												63	63	96	55																								
64/ 63		.3	1.1	1.6	1.8	1.0	1.0	.4													67	67	95	58																								
62/ 61		.3	1.1	1.5	1.1	.5	.1														43	43	109	60																								
60/ 59		.8	.5	.4	.9	.4	.1														29	29	113	51																								
58/ 57		.6	.5	.4	.8	.1															23	23	97	86																								
56/ 55		.8	.1	.1	.1																10	10	72	93																								
54/ 53		.9	.2	.1		.1															12	12	51	105																								
52/ 51		.4	.2	.3	.1																10	10	39	64																								
50/ 49				.1																	1	1	25	75																								
48/ 47	.2			.2																	4	4	8	53																								
46/ 45	.1			.1																	2	2	3	62																								
44/ 43																							3	33																								
42/ 41																							1	30																								
40/ 39																								10																								
38/ 37																								9																								
36/ 35																								10																								
34/ 33																								1																								
Element (X)	Σx^2				Σx				\bar{x}				σ_x				No. Obs.				Mean No. of Hours with Temperature																											
Rel. Hum.																					$\leq 0 F$				$\leq 32 F$				$\leq 67 F$				$\leq 73 F$				$\leq 86 F$				$\leq 93 F$				Total			
Dry Bulb																																																
Wet Bulb																																																
Dew Point																																																

FORM 0-26-5 (OL A) REVISIO PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

94836

K I SAWYER AFB MI

59-76

JUL

STATION

STATION NAME

YEARS

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PAGE 2

1500-1700

HOURS (P. S. I.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

59-78

YEARS

JUL
MONTH

PAGE 1 1800-2000

1800-200
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836
STAT:

K I SAWYER AFB MI

09-78

JUL
MCHIN

PAGE 2

1800-2000
HOURS (L. S. T.)

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PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFE MI
STATION STATION NAME

59-75

YEARS

JUL
MONTM

PAGE 1 2100-2300
H2:85 (L. S. T.)

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PSYCHROMETRIC SUMMARY

94836

K I SAWYER AFB HI

9-78

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STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALI

HOURS 11, 3, 7.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
100/ 99												.0						2	2														
98/ 97											.0	.0						2	2														
96/ 95											.0							2	2														
94/ 93									.1	.0		.0						6	6														
92/ 91								.1	.1	.0	.0	.0			.0			18	18														
90/ 89							.0	.1	.0	.1	.0		.0					15	15														
88/ 87						.0	.1	.1	.2	.1			.0					35	35														
86/ 85						.1	.1	.1	.3	.1	.0							47	47														
84/ 83					.1	.1	.4	.3	.1	.3	.0							87	87														
82/ 81				.0	.2	.2	.5	.3	.3	.3	.1	.0						147	147														
80/ 79				.1	.4	.6	.3	.5	.4	.2	.1	.1						203	203	1													
78/ 77		.0	.1	.4	.6	.5	.7	.6	.5	.2	.1	.0						278	278	21													
76/ 75		.0	.3	.4	.9	.5	.8	.9	.4	.2	.1							336	336	34													
74/ 73		.1	.3	1.1	.7	.7	.8	.7	.2	.1								353	353	77	12												
72/ 71		.3	.8	.9	.7	1.0	1.0	.6	.4	.1								438	438	190	58												
70/ 69	.0	.8	1.3	.9	1.0	1.2	.6	.4	.2	.1								482	482	278	126												
68/ 67	.0	1.4	1.7	.9	1.0	.9	.6	.4	.2	.0								518	518	384	199												
66/ 65	.3	1.8	1.6	1.3	1.2	.9	.6	.2	.1	.0								594	594	580	369												
64/ 63	.2	2.3	1.3	1.8	1.3	1.0	.5	.1	.0									633	633	624	482												
62/ 61	.3	2.2	1.8	1.8	1.1	.5	.1	.0	.0									580	580	706	502												
60/ 59	.2	2.5	1.7	1.1	1.0	.3	.1	.0										514	514	719	433												
58/ 57	.1	2.2	1.8	1.2	.7	.2	.0											454	454	771	584												
56/ 55	.1	2.5	1.7	1.1	.3	.1												426	426	664	640												
54/ 53	.3	1.9	1.5	.8	.1	.0												342	342	650	741												
52/ 51	.2	1.6	1.3	.4	.1													267	267	540	629												
50/ 49	.2	1.2	1.0	.2														188	188	379	570												
48/ 47	.2	1.5	.5	.1														169	169	286	548												
46/ 45	.1	1.0	.6	.1														130	130	209	566												
44/ 43	.1	.7	.5															96	96	125	363												
42/ 41	.0	.3	.2															36	36	96	221												
40/ 39		.2																17	17	59	162												
38/ 37	.0	.0																2	2	24	106												
36/ 35		.1																5	5	4	81												
34/ 33		.1																4	4	2	24												
Element (X)	Z _X ¹			Z _X			X		e _X		No. Obs.		Mean No. of Hour with Temperature																				
Rel. Hum.	≥ 0 F ≥ 32 F ≥ 67 F ≥ 73 F ≥ 80 F ≥ 93 F Total																																
Dry Bulb																																	
Wet Bulb																																	
Dew Point																																	

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

9-78

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ALL

ALL
WARS IN S.I.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
32/ 31		.0'																1	1	4	5			
30/ 29																					6			
TOTAL	2.224	6.19	9.14	6.11	3.8	7.1	5.4	3.5	1.8	.5	.2	.0		.0				7427	7427	7427	7427			

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

9-76

AUG

STATION

STATION NAME

YEARS

MCN:

PAGE 1

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NOV 95 11. 5. 7.1

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

9-75

AUG

STATION

STATION NAME

YEARS

4291-

PAGE 1

0320-0500

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[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

C. 9-78

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0600-0800

HOURS (L, S, T)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 0900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

69-78

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1200-1400

1200-1400
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
94/ 93										.1								1	1					
92/ 91									.2			.1						3	3					
90/ 89									.1	.2	.3	.1						7	8					
88/ 87								.3	.2	.2	.1	.2	.1					11	12					
86/ 85						.2	.1	.4	.3	.4	.3	.2			.1			20	21					
84/ 83				.1		.2	.4	.7	.9	.4	.3	.1						29	29					
82/ 81				.3	.2	.8	.4	1.0	1.6	.8	.3							50	51					
80/ 79				.1	.5	.9	1.3	1.4	1.3	.3	.4	.1						59	59					
78/ 77				.3	1.1	1.1	.8	1.4	.2	.5	.4							54	55	3				
76/ 75		.1	.3	.9	1.0	1.2	2.5	1.5	1.2	.7	.2							88	88	10				
74/ 73			.7	1.1	1.4	2.5	1.6	.9	.5	.1								81	81	13				
72/ 71			.3	1.2	1.1	1.0	1.5	1.2	.5									63	63	34				
70/ 69	.1	.1	.7	.9	1.8	1.4	.8	.8	.3									63	63	51				
68/ 67	.3	.9	1.2	.9	1.7	1.8	1.4	1.5	.1									91	92	79				
66/ 65		.8	.5	1.5	1.3	1.0	1.7	.1	.1									65	65	108				
64/ 63		1.1	.7	2.4	.9	1.2	.8	.3										67	67	112				
62/ 61		1.1	.4	.7	1.2	.4	.8	.2										44	44	87				
60/ 59	.1	1.1	.5	1.1	.7	.8	.2	.1										42	42	107				
58/ 57	.3	.7	.8	1.0	.4	.1												30	30	90				
56/ 55	.3	.8	.7	1.2	.2													29	29	74				
54/ 53	.1	.8	.2	.2	.2	.1												15	15	66				
52/ 51	.1	.1			.1													3	3	41				
50/ 49	.1	.2																3	3	33				
48/ 47	.2	.1																3	3	7				
46/ 45	.1																	1	1	5				
44/ 43																				2				
42/ 41																								
40/ 39																								
38/ 37																								
36/ 35																								
34/ 33																								
TOTAL	1.8	7.7	6.9	13.8	13.7	14.9	14.6	11.9	7.3	3.8	2.5	.9	.1		.1			922	928	922				

Element (X)	Σx²	Σx	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3572320	55224	59.9	6.951	922	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	4691507	65493	70.6	8.651	928			62.7	40.9	14.6	.1	93
Wet Bulb	3482711	56365	61.1	6.332	922			19.2	2.6			93
Dew Point	2829117	50569	54.8	7.767	922			6.2	.4			93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

19-78

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
96/ 95											.1	.1						2	2						
94/ 93										.1	.2	.1						4	4						
92/ 91								.1				.8						8	8						
90/ 89						.1			.3	.2	.3	.5	.1					15	17						
88/ 87					.1			.2	.1	.9	.3	.4			.1			20	21						
86/ 85					.2		.2	.1	.5	.3		.1		.1				15	15						
84/ 83				.1				.7	.7	.8	.3	.2						25	26						
82/ 81				.2	.1	.3	.5	1.3	1.5	.8	.3	.2						49	50						
80/ 79			.2		.5	1.1	1.3	1.7	.9	.8	.1	.2						63	64	2					
78/ 77			.1	.2	.8	1.2	1.1	1.2	.9	1.0	.2							61	61	4	2				
76/ 75		.1		1.1	1.4	1.3	.5	.9	.5	.4								58	58	10	2				
74/ 73		.1	.4	.7	1.8	1.2	1.5	2.1	.9	.3								83	83	12	4				
72/ 71		.1	.8	.9	1.6	1.3	1.6	1.7	.8									81	81	29	5				
70/ 69	.1	.7	.8	1.1	1.7	1.2	1.2	.8	.2									71	71	76	10				
68/ 67	.1	.3	.9	1.2	.9	1.1	1.3	.9	.2									63	63	85	38				
66/ 65	.2	.7	1.0	1.5	1.1	1.3	1.1	.5	.2									70	70	93	44				
64/ 63	.3	.7	.8	1.1	1.2	1.7	1.0	.1										63	63	100	54				
62/ 61	.2	.7	.7	1.4	1.8	.3	1.0											56	56	93	83				
60/ 59		.5	.2	.8	.8	1.0	.1											31	31	98	78				
58/ 57		.5	1.3	.5	.7	.2												30	30	80	83				
56/ 55	.3	.8	.9	.9	.3	.1												30	31	72	71				
54/ 53		.4	.4		.2	.1												11	11	73	75				
52/ 51	.2	.2	.2		.1													7	7	43	83				
50/ 49		.1	.2															3	3	36	58				
48/ 47	.2																	2	2	11	80				
46/ 45	.1																	1	1	4	55				
44/ 43																				1	41				
42/ 41																					29				
40/ 39																					12				
38/ 37																					9				
36/ 35																					6				
TOTAL	1.8	5.9	8.8	11.6	15.4	17.6	12.5	12.3	7.7	5.5	2.0	2.7	.1	.1	.1				922	929		922			
																		922		922					
Element (X)	Σx ²		Σx		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature										Total				
Rel. Hum.	3448767		54185		58.8		6.942		922		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F									
Dry Bulb	4766871		66001		71.0		9.157		929				62.5	40.9	17.0	.6			93						
Wet Bulb	3494251		56439		61.2		6.542		922				22.0	2.8	.2				93						
Dew Point	2817670		50446		54.7		7.907		922				6.2	.8					93						

FORM 0-26-5 (OL A) REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USA, ETAC

PSYCHROMETRIC SUMMARY

94836	K I SAWYER AFB MI
STATION	STATION NAME

69-78

YEARS

AUG
MONTH

PAGE 1 1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point						
92/ 91										.2			.1					3	3							
90/ 89										.1								1	1							
88/ 87										.2	.2							5	5							
86/ 85					.1	.1		.2	.3		.2							9	10							
84/ 83							.4	.3	.2	.2	.1							12	12							
82/ 81				.1			.5	.3	.1	.3	.1	.1						15	15							
80/ 79				.1	.1	1.1	.9	.6	.4		.1							31	32							
78/ 77		.2	.1		.6	1.4	.2	.9	.2		.2							36	36	1						
76/ 75			.4	.9	1.1	1.1	1.5	.6	.3	.1	.1							57	57	4	3					
74/ 73	.1	.1	.4	1.3	1.5	1.0	.5	1.0	.3									58	59	6	2					
72/ 71	.5	.3	1.1	1.8	1.9	.6	1.6	.8	.5									86	86	23	9					
70/ 69	.1	.8	1.5	1.5	1.6	1.6	1.3	.3										81	81	55	6					
68/ 67	.1	.8	1.7	1.3	1.5	1.7	1.3	.2										80	81	68	25					
66/ 65	1.2	.6	1.2	1.8	1.0	.9	.8	.5	.1									75	75	97	67					
64/ 63	.1	1.0	1.1	1.8	1.3	1.1	.6		.1									66	66	38	50					
62/ 61	.3	.8	1.6	1.9	1.5	1.5	.5											76	76	80	85					
60/ 59	.8	1.6	1.9	1.0	1.2	.6	.3											69	69	95	78					
58/ 57		.9	1.4	1.8	1.1	.8	.2											57	57	103	65					
56/ 55		1.6	1.1	.9	.6	.4												43	43	69	85					
54/ 53	.4	.9	1.2	.9	.1													32	32	71	73					
52/ 51	.1	.5	.6	.3	.1	.1												17	17	74	72					
50/ 49	.1	.3	.5		.1													10	10	45	83					
48/ 47	.1	.2	.1	.1														5	5	28	49					
46/ 45				.1														1	1	12	71					
44/ 43																				4	39					
42/ 41																				1	24					
40/ 39																				1	13					
38/ 37																					14					
36/ 35																					6					
34/ 33																					5					
32/ 31																					1					
TOTAL	4.0	10.6	16.1	17.7	15.6	14.1	10.8	5.8	2.8	1.2	1.1	.2						925		925	925					
Element (X)	Σx²		Σx		Σ		Σ		N.. Obs.		Mean No. of Hours with Temperature															
Rel. Hum.	4386304		61806		66.3		16.664		925		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total			
Dry Bulb	4206579		62027		66.8		8.382		929						47.9		23.0		5.7				93			
Wet Bulb	3326796		55122		59.6		6.742		925						15.8		1.1						93			
Dew Point	2809972		50426		54.5		8.126		925						.1		4.5		.5				93			

PSYCHROMETRIC SUMMARY

YEARS

AUG
MONTH

PAGE 1

2100-2300
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
80/ 79						.2												2	2															
78/ 77			.2		.2													5	5															
76/ 75				.1	1.0	.1												11	11															
74/ 73			.3	1.6	.5	.3												26	26	2														
72/ 71	.4	.1	1.3	1.1	.9	.3	.1		.1									40	40	6	7													
70/ 69	.3	.5	1.7	1.1	.8	.2	.3		.1									47	47	18	4													
68/ 67	.7	1.6	2.7	.7	.7	.3	.1											62	63	51	21													
66/ 65	1.2	1.4	3.5	2.2	.4	.7	.1											87	88	61	55													
64/ 63	.2	1.7	2.2	2.6	.8	.2	.1											72	74	65	44													
62/ 61	.3	2.0	2.4	2.2	1.0	.2		.1										75	76	65	60													
60/ 59	1.6	3.1	4.6	1.6	.2	.2												105	106	75	68													
58/ 57	.5	3.9	3.9	1.4	.5													95	95	121	92													
56/ 55	.8	3.4	1.8	1.1	.9													73	73	106	85													
54/ 53	1.1	1.8	1.8	1.1	.3													57	57	96	93													
52/ 51	.3	1.2	3.1	.4	.2													49	49	48	81													
50/ 49	.2	1.4	2.3	.9	.2													46	46	61	70													
48/ 47	.1	2.2	.9	.2	.1													32	32	56	49													
46/ 45	.1	1.5	.8															22	22	36	60													
44/ 43		.4	.2															6	6	32	47													
42/ 41		.7	.1															7	7	11	37													
40/ 39		.1	.1															2	2	7	18													
38/ 37			.1															1	1	2	17													
36/ 35																					1	8												
34/ 33																					1	1												
32/ 31																						3												
30/ 29																						2												
TOTAL	7.9	27.1	34.1	18.3	8.7	2.8	.8	.1	.2									922	928	922	922													
Element (X)	Zx'	Zx		X	%	No. Obs.		Mean No. of Hours with Temperature																										
Rel. Hum.	6066753	73935		80.2	12.237	922		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																				
Dry Bulb	3393465	55667		60.0	7.648	928				19.4	4.4	.1		93																				
Wet Bulb	2973945	51945		56.3	7.173	922				7.9	.3			93																				
Dew Point	2704629	49397		53.6	7.945	922				.5	3.2			93																				

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB HI

49-78

AUG

STATION

STATION NAME

YEARS

MENTE

PAGE 1

ALL

ALL
HOURS (L - S - T)

[illegible]

94836 K I SAWYER AFB MI
STATION STATION NAME

PAGE 2

AUG
MONTH

ALL
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

69-78

SEP
MONTH

STATION

STATION NAME

YEARS

MONIN

PAGE 1

0000-0200
HOLDS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

9-74

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
74/ 73				.1														1	1					
72/ 71			.1															1	1					
70/ 69			.3															3	3					
68/ 67	1.3	.4																16	16	17	12			
66/ 65	.4	1.1	.2	.1														17	17	15	14			
64/ 63	.7	.6	.1	.3														15	15	11	15			
62/ 61	.2	2.9	.2		.2													32	32	10	10			
60/ 59		1.7	.2	.1														18	18	29	19			
58/ 57	.4	3.2	.6	.1														39	39	28	30			
56/ 55	.8	4.1	1.2	.3														58	58	38	33			
54/ 53	.6	5.6	.8	.1														63	63	55	33			
52/ 51	2.0	6.0	1.8	.3	.3													94	94	83	75			
50/ 49	.8	5.9	1.4															73	75	76	82			
48/ 47	1.1	7.0	.8		.2													82	82	77	73			
46/ 45	.3	5.2	1.0	.4														63	63	78	68			
44/ 43	1.0	5.2	1.0															65	65	66	68			
42/ 41	.4	2.7	.3															31	31	55	56			
40/ 39	.7	3.6	.3															41	41	56	49			
38/ 37	2.0	3.2	.1															48	48	43	53			
36/ 35	.8	3.9	.2															4	44	39	51			
34/ 33	1.4	3.5	.4															48	48	44	35			
32/ 31	.4	2.0																22	22	43	58			
30/ 29	.4	1.1	.2															16	16	20	29			
28/ 27		.2																2	2	6	15			
26/ 25	.1	.2																3	3	4	7			
24/ 23		.2																2	2	3	5			
22/ 21																				1	4			
20/ 19																					3			
TOTAL	16.1	69.7	11.5	2.0	.8													897	899	897	897			

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

C9-7d

SEP
MON

PAGE 1

0600-0800
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

29-78

YEARS

SEP
MONTH

PAGE 1 0900-1100
HOURS (i. e. T-1)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
84/ 83						.1												1	1													
82/ 81						.1												1	1													
80/ 79			.1	.1	.2						.1							5	5													
78/ 77			.2		.2													4	4													
76/ 75				.1	.1	.2	.1		.1	.1								7	7	3												
74/ 73	.1	.1		.6	.1	.1			.1									10	10	4												
72/ 71			.2	.2	.2	.1	.1	.1	.1									10	10	4												
70/ 69	.3		.4	.7	.3	.3	.3	.1										23	23	5												
68/ 67	.3	.9	.3	.1	.2	.1	.2											20	20	17												
66/ 65		.9	1.1	.4	.6	.4	.3	.1										35	35	21												
64/ 63	.1	.9	.7	1.1	.6	1.0	.1	.1										41	41	18												
62/ 61	.3	1.0	.8	.9	.9	1.1		.1										46	46	24												
60/ 59	.3	1.4	.6	1.4	1.1	1.0	.1											54	54	32												
58/ 57	.3	3.2	1.6	1.4	1.1	.9	.1											78	78	55												
56/ 55	.6	4.1	2.2	1.9	2.4	.4												105	105	62												
54/ 53	.4	3.1	3.2	3.1	.2	.1												92	92	97												
52/ 51	.4	3.8	4.8	1.9	.7		.1											105	105	87												
50/ 49	.6	1.8	3.6	.9	.2													63	63	115												
48/ 47	.1	3.6	2.7	.6	.3													65	65	108												
46/ 45	.4	2.4	1.2	.8	.4													48	48	84												
44/ 43	.2	1.3	1.4	.4	.2													33	33	57												
42/ 41		1.3	.7	.6	.1													24	24	27												
40/ 39	.1	.9	1.0	.1														19	19	35												
38/ 37		.4	.1															5	5	24												
36/ 35		.4																4	4	14												
34/ 33		.1																1	1	5												
32/ 31																				1												
30/ 29		.1																1	1	1												
28/ 27																				10												
26/ 25																				2												
24/ 23																				1												
TOTAL	4.83	1.92	6.91	7.31	0.3	6.1	1.6	.6	.3	.1	.1							900	900	900												
																		900	900													

Element (X)	ΣX^2	ΣX	\bar{X}	s_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5453232	68802	76.4	14.573	900	≤ 6 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2770418	49368	54.9	8.333	900		.1	8.1	2.8	.3		90
Wet Bulb	2375807	45729	50.8	7.629	900		.2	3.3	.7			90
Dew Point	2065975	42401	47.1	8.721	900		3.8	2.0	.6			90

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

69-76

222

STATION

STATION NAME

YEARS

SECRET

PAGE 1

1200-1400

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

9-76

SEP

STATION

STATION NAME

YEARS

347

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1200-1400

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[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

69-78

YEARS

SEP
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

49-78

SEP

STATION

STATION NAME

YEARS

327

PAGE 2

1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
24 / 23																					
TOTAL	.9	15.9	16.9	15.9	14.9	12.7	9.1	7.0	3.5	1.7	.4	.4	.1	.1	.1	.2			899		898
																		898		898	

PSYCHROMETRIC SUMMARY

94836
STAT

K I SAWYER AFB MI

69-78

SEP
MONTH

PAGE 1

1800-2000
HOLRS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

9-78

SEP

PAGE 1 2100-2300
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

69-78

SEP

STATION	STATION NAME
035	K. L. JAWLER APO HI

YEARS

MONTH

PAGE 1

ALL

ALL
HOURS (L. S. T.)

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PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

69-78

SEP
MONTH

PAGE 2

ALL
HOURS 1: 5. T.

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PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

69-78

YEARS

05
MONTH

AGE 1 0000-0200
HOURS : : T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SANYER AFB MI

..9-78

757

STATION

STATION NAME

YEARS

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PAGE 1

0300-0500

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB HI
STATION STATION NAME

69-78

YEARS

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MONTM

PAGE 1

0600-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
68/ 67			.2															2	2													
66/ 65			.1															1	1													
64/ 63		.2	.1															3	3	3												
62/ 61	.1	.2																3	6	3	6											
60/ 59	.3	1.1																13	13	8	3											
58/ 57	.3	.4		.2														9	9	12	14											
56/ 55	.3	1.2	.4	.1														19	19	6	8											
54/ 53	1.2	1.7		.1														28	28	29	20											
52/ 51	.2	1.9	.4															24	24	25	20											
50/ 49	.1	2.3	.6	.2														30	30	16	25											
48/ 47	.3	2.6	.8	.4														38	38	31	19											
46/ 45	1.4	5.2	.4															65	65	56	48											
44/ 43	1.1	3.8	2.2	.6														71	71	61	52											
42/ 41	.4	4.2	1.0	.4														56	56	53	42											
40/ 39	.8	5.4	2.2	.2														79	79	69	47											
38/ 37	1.2	5.2	1.8	.4														80	80	76	56											
36/ 35	1.1	5.3	2.2	.1														80	80	72	71											
34/ 33	1.4	5.3	.5															67	67	89	66											
32/ 31	.8	6.9	1.3															83	83	85	68											
30/ 29	.8	4.6	.5															55	55	71	81											
28/ 27	.3	5.0	.6															55	55	57	74											
26/ 25	.1	1.5	.2															17	17	43	60											
24/ 23		1.5																14	14	16	42											
22/ 21	.1	1.6																16	16	15	38											
20/ 19	.4	.8																11	11	20	21											
18/ 17	.1	.3																4	4	5	20											
16/ 15		.2																2	2	3	14											
14/ 13		.1																1	1	1	8											
12/ 11		.1																1	1	1	2											
10/ 9																					1											
8/ 7																					1											
TOTAL	12.868	615.6	2.9															927	930	927												
Element (X)	Σx ²	Σx	X	e _s	No. Obs.	Mean No. of Hours with Temperature															Total											
Rel. Hum.	6855488	79224	85.5	9.569	927	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																					
Dry Bulb	1465764	35890	38.6	9.321	930		25.9	.2							93																	
Wet Bulb	1340187	34207	36.9	9.173	927		31.8								93																	
Dew Point	1196344	31934	34.4	10.196	927		43.1								93																	

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

69-78

7CT

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0900-1100

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
76/ 75					.1													1	1					
72/ 71				.1					.1									2	2					
70/ 69				.1														1	1					
68/ 67																					1			
66/ 65				.1	.1		.1		.1									4	4		1			
64/ 63	.1	.3	.1	.3														8	8		3			
62/ 61	.5	.4	.2	.2	.1	.1	.1											16	16		7			
60/ 59		.8	.3	.6	.1		.2											19	19		8			
58/ 57	.5	.4	.3	1.0	.3		.1											25	25		20			
56/ 55		1.7	.8	.8	.9	.3												41	41		11			
54/ 53	.9	1.4	.5	1.3	.4	.3	.1	.1										47	47		40			
52/ 51	1.1	1.7	1.2	.3	.4	.2												46	46		37			
50/ 49	.5	2.7	1.9	1.0	.8	.1												65	65		50			
48/ 47	.1	3.3	1.4	1.8	.5													67	67		57			
46/ 45	.8	2.7	3.1	1.9	.4													83	83		72			
44/ 43	.2	3.2	2.0	1.6	.3													69	69		51			
42/ 41		3.9	2.2	2.4	.2													80	80		97			
40/ 39	.3	3.5	2.7	1.9														79	79		75			
38/ 37	.1	3.7	2.9	1.0	.2													73	73		82			
36/ 35	.2	3.1	2.7	.4														60	60		71			
34/ 33	.2	2.2	1.1															32	32		78			
32/ 31	.9	3.5	1.7	.2														59	59		63			
30/ 29	.2	1.6	.9	.1														26	26		54			
28/ 27		.8	.2															9	9		19			
26/ 25		.8	.5															12	12		15			
24/ 23		.4																4	4		12			
22/ 21		.1																1	1		5			
20/ 19																								
18/ 17		.1																1	1					
16/ 15																					1			
14/ 13																								
12/ 11																								
TOTAL	6.7	42.4	26.8	17.2	4.9	1.1	.6	.1	.2									930	930	930	930			
Element (X)	Σx²		Σx		X		x		No. Obs.		Mean No. of Hours with Temperature						Total							
Rel. Hum.	5757174		71994		77.4		14.070		930		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93							
Dry Bulb	1851271		40649		43.7		6.959		930			11.2	.4	.1			93							
Wet Bulb	1603762		37792		40.6		8.557		930			16.9	.1				93							
Dew Point	1344970		34150		36.7		9.895		930			34.4					93							

USAFETAC FORM 84 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

94836 K I SAYYER AFB MI
STATION STATION NAME

69-78

YEARS

of

MONITOR

PAGE 2 1200-1400
HOURS (L. S. T.)

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

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STATION

STATION NAME

YEARS

MONTH

PAGE 1

1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
80/ 79							.2					.3						5	5																
76/ 75					.1													1	1																
74/ 73				.2					.1									3	3																
72/ 71				.1		.2		.1										4	4																
70/ 69			.1	.1		.3	.3	.1	.2									11	11																
68/ 67			.1	.2	.2	.5	.6	.5	.2									23	23		5														
66/ 65		.1	.1	.4	.3	.6		.4	.1	.2								22	22		2														
64/ 63		.5	.5	.9	.5	.6	.3	.4	.1	.3								49	49		5														
62/ 61	.1	.3	.6	.4	.6	1.0	.5	.3	.3									40	40	13	9														
60/ 59		.8	.9		1.1	.4	.8	.6		.1								43	43	25	7														
58/ 57	.1	1.0	1.0	.4	1.4	.5	.2	.4	.1									48	48	36	9														
56/ 55		1.4	.8	1.5	.9	.5	.5	.1										53	53	34	24														
54/ 53	.3	1.1	.8	1.8	1.0	1.4	1.0	.3										71	71	53	33														
52/ 51	.2	1.6	1.8	.9	1.0	1.2	.8	.2	.1									72	72	48	38														
50/ 49		1.0	.6	1.4	1.2	1.6	.2	.3										59	59	85	26														
48/ 47	.2	.9	.9	1.3	1.2	.2	.3	.2										48	48	65	43														
46/ 45		1.6	1.9	2.3	.8	.6	.1											68	68	49	61														
44/ 43	.1	1.0	1.2	1.5	.6		.1											42	42	76	43														
42/ 41		1.0	1.4	2.2	1.5													56	56	71	40														
40/ 39		2.5	1.9	1.7	.6													63	63	73	57														
38/ 37	.3	1.9	1.3	2.0														52	52	67	52														
36/ 35	.2	.5	.9	.5	.3													23	23	70	59														
34/ 33	.1	.6	1.5	.3														24	24	52	67														
32/ 31		1.6	1.0	.1														25	25	30	74														
30/ 29		1.3	.2	.2														16	16	40	56														
28/ 27		.1	.3	.2														6	6	18	56														
26/ 25		.1	.1															2	2	5	56														
24/ 23																				8	47														
22/ 21																					23														
20/ 19																					19														
18/ 17																					4														
16/ 15																					4														
14/ 13																					4														
12/ 11																					7														
Element (X)	Σ X					Σ X					Σ X					Σ X					Σ X					Σ X									
Rel. Hum.																																			
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

9-74

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PAGE 2 1500-1700

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

69-78

OCT

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
68/ 67			.1				.1											2	2						
66/ 65			.1			.1	.2	.1										11	12	2					
64/ 63		.3	.2	.3	.2	.1												19	19	7	6				
62/ 61	.3	.6	.1	.6		.1	.1	.1										33	33	7	7				
60/ 59		1.2	.2	1.1	.3	.3	.3	.1										47	47	23	14				
58/ 57	.3	1.3	1.1	.8	.5	.3	.4	.2	.1									41	41	31	17				
56/ 55	.2	1.6	.5	.5	1.1	.3	.1											48	48	42	27				
54/ 53	.9	1.0	.9	1.1	.6	.6	.1											64	64	40	31				
52/ 51	.4	2.3	1.9	1.0	.6	.5	.1											72	72	50	39				
50/ 49	.5	1.8	2.5	1.2	1.0	.6	.1											67	67	79	30				
48/ 47	.3	2.7	1.3	1.4	1.1	.3	.1											68	68	54	54				
46/ 45		2.5	1.7	1.7	.5	.8	.1											69	69	74	54				
44/ 43	.3	2.6	.2	1.7	.6													48	48	60	49				
42/ 41	.1	1.6	2.4	.8	.1	.2												65	65	67	50				
40/ 39		2.4	2.3	1.7	.4	.2												75	75	82	51				
38/ 37	.1	3.8	2.5	1.6	.1													50	50	83	60				
36/ 35	.9	2.4	1.4	.6	.1													45	45	67	70				
34/ 33	.4	1.7	2.3	.3	.1													47	47	42	94				
32/ 31		2.4	2.5	.2														26	26	57	42				
30/ 29		2.1	.6	.1														15	15	35	43				
28/ 27	.1	.8	.6	.1														6	6	10	66				
26/ 25		.3	.3															3	3	9	39				
24/ 23		.2	.1																	4	38				
22/ 21																				1	11				
20/ 19																					5				
18/ 17																					4				
16/ 15																					7				
14/ 13																					10				
12/ 11																					1				
10/ 9																					1				
8/ 7																					1				
TOTAL	5.035	5.527	9.17	7.0	7.6	4.6	1.8	.5	.1									926	929		926				
																		926		926					
Element (X)	Σ x ²		Σ x		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ				
Rel. Hum.	5270766		68282		73.715		964		926		Σ 0 F		Σ 32 F		Σ 67 F		Σ 73 F		Σ 80 F		Σ 93 F				
Dry Bulb	1956330		41744		44.9		9.319		929				9.7		.2										
Wet Bulb	1640805		38123		41.2		8.779		926				15.9												
Dew Point	1329615		33699		36.410		565		926				36.3												

ONE OF THIS FORM ARE OBSOLETE

REVISED BY

0-26-5 (OL A)

FORM 64

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

49-76

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STATION

STATION NAME

YEARS

MONTH

PAGE 1

2100-2300

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
66/ 65			.1				.3											4	4					
64/ 63		.2																2	5					
62/ 61		.4																4	4	3	1			
60/ 59	.3	1.2	.4	.6														24	24	8	9			
58/ 57	.9	.6	.5	.1														20	20	22	15			
56/ 55	.1	1.8	.4		.8	.1												30	30	12	9			
54/ 53	.4	1.9	1.2	1.1														43	43	42	29			
52/ 51	.3	2.2	1.4	.3	.2	.1												42	42	19	25			
50/ 49	.6	4.0	1.5	.9	.3	.4												72	72	48	29			
48/ 47	.4	4.2	1.4	.9	.4	.1												69	69	67	42			
46/ 45	.2	2.9	1.3	1.9	.4	.3												69	69	58	57			
44/ 43	.9	2.6	1.7	.5	1.0													62	62	59	53			
42/ 41		3.3	1.7	.5														52	52	59	38			
40/ 39	.5	3.0	1.5	.4														51	51	80	56			
38/ 37	1.1	4.3	2.0	1.6														84	84	63	51			
36/ 35	.6	3.6	1.6	.3	.1													58	58	74	69			
34/ 33	.5	4.3	2.2	.1														66	66	70	55			
32/ 31	.5	4.4	2.3															57	67	68	89			
30/ 29	.2	3.3	1.1	.3														46	46	64	45			
28/ 27	.5	2.3	.6	.1														33	33	55	58			
26/ 25	.6	1.2	.2															19	19	29	66			
24/ 23		.6																6	6	17	51			
22/ 21		.3																3	3	7	40			
20/ 19		.1																1	1	2	14			
18/ 17																				1	5			
16/ 15																					4			
14/ 13																					8			
12/ 11																					9			
TOTAL	9.05	3.02	3.6	9.8	3.2	1.1	.3											927	930	927	927			
Element (X)	Σx		Σx ²		Σx ³		Σx ⁴		Σx ⁵		Σx ⁶		Σx ⁷		Σx ⁸		Σx ⁹		Σx ¹⁰		Σx ¹¹		Σx ¹²	
Rel. Hum.	6145110		74446		80313.408		927		Σ 0 F		Σ 32 F		Σ 67 F		Σ 73 F		Σ 80 F		Σ 93 F		Total			
Dry Bulb	1706528		38896		41589.266		930				17.5										93			
Wet Bulb	1504315		36409		39338.958		927				24.4										93			
Dew Point	1289545		33209		35810.385		927				39.0										93			

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836
STATION

K I SAWYER AFB MI
STATION NAME

9-78
YEARS

YEARS

NOT
MONTH

PAGE 1

ALL
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
80/ 79							.0					.1						6	6					
78/ 77						.0					.0							3	3					
76/ 75					.0	.0				.0	.0							5	5					
74/ 73				.0	.0		.0		.0									6	6					
72/ 71				.0		.0	.0	.0	.0									8	8					
70/ 69			.0	.0	.0	.1	.1	.0	.0									21	21					
68/ 67			.1	.1	.1	.1	.1	.1	.0									40	40	9				
66/ 65		.1	.1	.1	.1	.2	.1	.1	.0	.0								67	69	9				
64/ 63	.0	.4	.2	.2	.2	.2	.1	.1	.2	.1								123	131	20	18			
62/ 61	.2	.4	.2	.2	.1	.2	.2	.2	.1	.0								136	141	60	51			
60/ 59	.2	.8	.4	.4	.4	.2	.2	.1	.0	.0								216	216	91	51			
58/ 57	.3	.8	.5	.5	.5	.2	.1	.1	.0									222	222	163	83			
56/ 55	.1	1.4	.5	.5	.6	.2	.1	.0										262	262	154	110			
54/ 53	.6	1.6	.6	1.0	.4	.4	.3	.1										360	360	304	207			
52/ 51	.4	1.7	1.1	.4	.5	.4	.2	.0	.0									356	356	284	225			
50/ 49	.4	2.5	1.3	.9	.6	.5	.1	.1										468	468	391	235			
48/ 47	.3	2.4	1.3	1.1	.7	.1	.1	.0										447	447	426	277			
46/ 45	.5	3.3	1.8	1.5	.5	.3	.0	.0										589	589	450	410			
44/ 43	.7	2.7	1.9	1.2	.5	.0	.0											522	522	548	439			
42/ 41	.2	2.7	1.6	1.2	.3	.1												450	450	541	346			
40/ 39	.5	3.5	1.9	1.2	.2	.0												550	550	605	435			
38/ 37	.6	3.5	2.0	1.1	.0													538	538	572	455			
36/ 35	.5	2.7	1.8	.4	.1													408	408	545	534			
34/ 33	.6	3.2	1.4	.2	.0													398	398	553	492			
32/ 31	.5	4.0	1.6	.1	.0													466	466	482	608			
30/ 29	.4	2.9	.7	.1														305	305	474	488			
28/ 27	.3	1.8	.5	.1														194	194	314	493			
26/ 25	.1	1.1	.2															109	109	173	489			
24/ 23	.0	.9	.1															70	70	130	331			
22/ 21	.1	.5																40	40	62	254			
20/ 19	.1	.1																18	18	39	149			
18/ 17	.1	.1																13	13	14	86			
16/ 15		.0																3	3	6	54			
14/ 13	.0	.0																2	2	2	51			
Element (X)	Σx^2		Σx		\bar{x}		s_x		No. Obs.		Mean No. of Hours with Temperature										Total			
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 57 F	≥ 73 F	≥ 80 F	≥ 93 F								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 0-26-5 (OL.A)
JUL 64

USAFETAC

PSYCHROMETRIC SUMMARY

94835
STATIO

K I SAWYER AFB MI

9-76

YEARS

OCT
MONTH

PAGE 2

ALL

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836
STAT.

K I SAWYER AFB MI

69-78

NOV
MONTH

PAGE 1

0000-0200
HCURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

59-78

NOV
MONTH

PAGE 2 0000-0200
HOURS (L. S. T.)

[illegible]

USAFETAC
FORM
JUL 64
0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB HI

9-78

NOV
MONTH

PAGE 1 0300-0500
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
56/ 55		.1																1	1					
54/ 53		.7																6	6	2	2			
52/ 51		.2	.4															6	6	10	10			
50/ 49		.1	.1															2	2	3	2			
48/ 47		.3	1.0		.4													16	16	9	8			
46/ 45		.9	1.1	.2		.1	.1											22	22	15	16			
44/ 43		.3	1.2	.6														19	19	13	11			
42/ 41			2.4	.2	.3													27	27	20	8			
40/ 39		.6	2.0	.3		.1												27	27	31	21			
38/ 37		.4	2.1	.8														30	30	28	17			
36/ 35		.6	4.2	1.1	.3													56	56	32	37			
34/ 33		.9	6.2	1.6														78	78	50	29			
32/ 31		.4	6.2	1.2														71	71	88	33			
30/ 29	1.2	5.8	1.0	.1														73	73	75	82			
28/ 27	.9	8.2	2.1	.1														102	102	80	58			
26/ 25	1.1	6.3	1.9															84	84	89	64			
24/ 23	.4	4.4	.3															47	47	79	64			
22/ 21	.3	3.6	.7															41	41	60	42			
20/ 19	1.9	4.0	.6															58	58	52	77			
18/ 17	.8	3.3																37	37	49	69			
16/ 15	.2	3.1																30	30	30	62			
14/ 13	.1	1.6																15	15	28	47			
12/ 11	.3	.6																8	8	10	37			
10/ 9	.9	.9																16	16	18	27			
8/ 7	.6	.4																9	9	7	27			
6/ 5	.1	.6																6	6	9	12			
4/ 3	.3	.4																7	7	4	12			
2/ 1		.2																2	2	5	12			
0/ -1	.1	.1																2	2	1	4			
-2/ -3		.1																1	1	2	1			
-4/ -5		.1																1	1	1				
-8/ -9																					3			
-10/-11																					2			
-12/-13																					1			
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature										Total			
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (OL A) REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

49-78

NOV

PAGE 2

0300-0500
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

49-78

YEARS

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MAY

PAGE 2

0600-0800
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

NOV

MCSYM

PAGE 1 0900-1100
HOURS (1 5 7)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB HI
STATION STATION NAME

9-76

YEARS

NOV
MONTH

PAGE 2

0900-1100
HOURS (L, S, T, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

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FORM 0-26-5 (OLA) , REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUL 64

USAFETAC

Element (X)	Z _X ²	Z _X	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5640370	70362	78.4	11.909	898	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	915680	27256	30.3	9.974	899	.3	53.2					90
Wet Bulb	806971	25511	28.4	9.575	898	.5	62.2					90
Dew Point	634271	21701	24.2	11.066	898	1.4	70.7					90

PSYCHROMETRIC SUMMARY

9-7a

NOV
MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
68/ 67						.1		.1		.1								3	3																
66/ 65						.1		.1	.1			.1						4	4																
64/ 63							.1		.1									2	2																
62/ 61			.1	.1		.1				.1								4	4																
60/ 59					.2	.1												3	3																
58/ 57		.2	.1			.1		.1	.1		.1							7	7	3															
56/ 55		.4			.1	.2	.2											9	9	5															
54/ 53	.1	.1	.2	.2		.4	.2	.1		.1								14	14	5	7														
52/ 51	.4	.3	.3	.6	.3	.3	.3	.1	.1									26	26	13	9														
50/ 49	.1	1.1	.1	.9	.3		.2	.1										26	26	12	5														
48/ 47		1.3	.3	.6	.4	.1												25	25	19	16														
46/ 45		1.0	.7	1.0	.4	.2												30	30	28	11														
44/ 43		.8	.4	.6	.7	.2												24	24	22	10														
42/ 41	.4	2.2	1.0	.8	.6													45	45	38	20														
40/ 39		2.1	2.1	.8	.3	.1												49	49	37	27														
38/ 37	.4	2.9	1.9	.9	.3													58	58	55	21														
36/ 35	.3	2.2	3.8	1.6	.1													72	72	62	49														
34/ 33	.1	3.0	3.8	1.1														72	73	56	41														
32/ 31	.6	2.6	3.5	.4	.2													65	65	83	46														
30/ 29	.7	4.9	4.2	.2														90	91	82	63														
28/ 27	.1	4.8	3.7	.3														80	80	87	49														
26/ 25		4.8	1.8	.2														61	61	72	74														
24/ 23		1.8	1.3															28	28	70	54														
22/ 21		1.6	1.6															30	31	32	73														
20/ 19		1.9	.6															22	24	34	86														
18/ 17		2.2	.9															28	28	29	49														
16/ 15		.9	.1															9	9	22	42														
14/ 13		.1																1	1	12	33														
12/ 11		.1																1	1	2	18														
10/ 9		.1	.1															2	2	1	39														
8/ 7		.3	.1															4	4	1	27														
6/ 5		.1																1	1	5	4														
4/ 3																				1	9														
2/ 1																					2														
Element (X)	Σ X ²		Σ X		X̄		s _R		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 0 F		≥ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total												
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

0.26-5 (OLA) REPEATED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

ISAFETAC

PSYCHROMETRIC SUMMARY

NDV

PAGE 2 1200-1400

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point															
0/ -1																							3														
-8/ -9																							2														
-10/-11																							2														
-12/-13																							2														
TOTAL	3.444	4.452	8.10	3.4	1.2	2.2	1.1	.7	.4	.3	.2									895	900		895														

Element (X)	$\Sigma x'$	Σx	\bar{x}	s^2	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4658601	63083	70.535	409	895	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1154261	30851	4.330	373	900		42.6	3				90
Wet Bulb	941989	27825	31.1	9.276	895		54.3					90
Dew Point	676965	22435	25.131	021	895	9	68.3					90

PSYCHROMETRIC SUMMARY

69-70

NOV
MONTH

PAGE 2 1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

59-78

NOV
MONTH

PAGE 1 1800-2000
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

49-7c

NOV
MONTH

YEARS

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1800-2000

2000-2000
HOURS: 5 1 1

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

9-70

YEARS

NOV
MONTH

PAGE 1 2100-2300
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	* 31	Dry Bulb	Wet Bulb	Dew Point				
58/ 57				.1			.1											2	2					
56/ 55		.3		.1			.1											5	5	3	2			
54/ 53		.6		.1		.1												7	7	3	4			
52/ 51		.4																4	4	5	2			
50/ 49	.1	.8					.1											9	9	5	5			
48/ 47	.2	.7				.1	.2											11	11	9	9			
46/ 45	.3	.9	.3	.2														16	16	12	12			
44/ 43	.3	1.3	.2	.7		.1												24	24	12	7			
42/ 41	.4	1.4	.7	.6	.1	.1												30	30	27	20			
40/ 39	.3	2.7	.6	.4	.3													39	39	27	18			
38/ 37	.9	2.7	1.1	.4														46	46	38	21			
36/ 35	1.0	2.7	1.2	.2														46	46	47	29			
34/ 33	.8	6.0	1.6	.8	.1													83	83	50	36			
32/ 31	1.0	5.0	3.8	.2														90	90	84	47			
30/ 29	.9	3.4	2.8	.7														87	87	82	47			
28/ 27	1.0	5.9	2.2															82	82	98	77			
26/ 25	.2	5.5	1.6															65	65	73	57			
24/ 23		4.3	.7															45	45	75	74			
22/ 21	.8	4.5	.6															52	52	56	51			
20/ 19	1.0	3.0	.8															43	43	47	73			
18/ 17	.4	3.0																31	31	47	70			
16/ 15	.1	2.7																25	25	25	60			
14/ 13	.2	1.3																14	14	20	44			
12/ 11	.3	1.2																14	14	17	32			
10/ 9	.4	.6																9	9	16	23			
8/ 7	.4	.6																9	9	7	29			
6/ 5		.2																2	2	4	16			
4/ 3		.1																1	1	1	18			
2/ 1		.3																3	3	2	2			
0/ -1		.1																1	1	2	3			
-2/ -3		.2																2	2	3				
-8/ -9																					2			
-10/-11																					2			
-12/-13																					1			
Element (X)	ΣX^1			ΣX			\bar{X}	σ_x	No. Obs.			Mean No. of Hours with Temperature												
Rel. Hum.												$\leq 0 F$	$\leq 32 F$	$\approx 67 F$	$\approx 73 F$	$\approx 80 F$	$\approx 93 F$	Total						
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

69-78

NOV
MONTH

PAGE 2 2100-2300
HOURS (11, 5, 7)

[illegible]

PSYCHROMETRIC SUMMARY

49-76

MOV
MONTH

ALL
HOURS (L. S. T.)

[illegible]

0-26.5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

9-78

NOV

STATION

STATION NAME

YEARS

4057M

PAGE 2

ALL

HOURS 11.5. T.1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
2/-1	.1	.2																20	20	22	43														
0/-1	.0	.1																8	8	10	36														
-2/-3	.0	.1																10	10	11	13														
-4/-5		.1																4	4	7	1														
-6/-7																				1	2														
-8/-9																					10														
-10/-11																					13														
-12/-13																					15														
-14/-15																					12														
-16/-17																					9														
TOTAL	9.76	1.02	0.5	5.2	1.6	.9	.5	.2	.2	.1	.0							7182	7189	7182															

PSYCHROMETRIC SUMMARY

DEC
MONTH

0000-0200
HOURS (L, S, T, J)

[illegible]

PSYCHROMETRIC SUMMARY

68-77

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 2

0000-0200
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

8-77

REC

STATION

STATION NAME

YEARS

MCNTP

PAGE 1

0300-0500
HOURS (11:55 A.M. - 1:00 P.M.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
42/ 41		.1																1	1																
40/ 39	.5																	5	5	6	4														
38/ 37																					2														
36/ 35	.1	.9	.1															10	10	2															
34/ 33	.4	2.3	.1	.1														27	27	16	8														
32/ 31	1.5	2.3	.1	.1														37	37	42	24														
30/ 29	1.4	2.7	.2															40	40	33	30														
28/ 27	1.7	4.8	.1															62	62	51	30														
26/ 25	.6	4.5																48	48	43	30														
24/ 23	.6	4.6	.4															53	53	55	40														
22/ 21	.4	6.6	.4	.1														70	70	61	37														
20/ 19	2.9	8.1																102	102	87	43														
18/ 17	2.0	5.3																68	68	102	68														
16/ 15	1.0	5.4																59	59	62	75														
14/ 13	1.0	3.1																38	38	47	72														
12/ 11	1.4	3.0																41	41	34	81														
10/ 9	2.9	4.6																70	70	63	67														
8/ 7	1.2	2.4																33	33	39	45														
6/ 5	1.0	2.2																29	29	33	38														
4/ 3	1.2	2.2																31	31	34	43														
2/ 1	.3	1.9																21	21	23	25														
0/ -1	2.2	.3																23	23	27	22														
-2/ -3	.5	.3																8	8	9	21														
-4/ -5	1.5	.2																16	16	18	12														
-6/ -7	.6	.1																7	7	6	23														
-8/ -9	1.6																	15	15	16	19														
-10/-11	.3																	3	3	3	14														
-12/-13	.9																	8	8	8	14														
-14/-15	.2																	2	2	2	13														
-16/-17	.3																	3	3	3	9														
-15/-19																					5														
-20/-21																					7														
-24/-25																					4														
-26/-27																					5														
Element (X)	Σ x ²		Σ x		x̄		s _x		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total												
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

PSYCHROMETRIC SUMMARY

8-77

DEC
MONTA

PAGE 2 0300-0500
HOURS (L. S. T.)

[illegible]

USAFETAC FORM 0-26.5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

82-77

DEC

PAGE 1 3600-0000

[illegible]

PSYCHROMETRIC SUMMARY

94835 K I SA-YER AFB HI
STATION STATION NAME

8-77

DEC

PAGE 2 0000-0000

0000-0000

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

63-77

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 2

0900-1100

HOURS (L. S. T.)

[illegible]

0-26-5 (OLA)

USAFETAC

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

, 8-77

YEARS

DEC
MONIN

PAGE 2 1200-1400
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

c 8-77

YEARS

DEC
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION

-8-77

DEC

STATION

STATION NAME

YEARS

MIN

PAGE 2

1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

8-77

DEC
MONTH

PAGE 1 1800-2000
HOLRS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94835 K I SAWYER AFB MI
STATION STATION NAME

8-77

YEARS

DEC
MONTH

PAGE 1 2100-2300
HOURS 11: 5. 7.1

[illegible]

PSYCHROMETRIC SUMMARY:

94835 K I SAWYER AFB MI

8-77

YEARS

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PAGE 2 2100-2300
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

94836	K I SAWYER AFB MI
STATION	STATION NAME

58-77

YEARS

DEC
MONTH

PAGE 1

ALL

MOUSE IS - S - T -

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI
STATION STATION NAME

8-77

DEC

YEARS

MONTH

PAGE 2

ALL

HOURS 1 - 5 - 9 - 10

[illegible]

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

68-70

iii

STAT:28

STATION NAME

YEARS

4541

PAGE 1

421

ALL
NO. 85-1-5-2

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
100/ 99																			2	2															
98/ 97																			2	2															
96/ 95																			4	4															
94/ 93																			19	19															
92/ 91																			42	42															
90/ 89																			54	57															
88/ 87																			97	99															
86/ 85																			133	135															
84/ 83																			266	268															
82/ 81																			467	470															
80/ 79																			608	610															
78/ 77																			704	705	33	33													
76/ 75																			945	946	87	11													
74/ 73																			1051	1052	168	46													
72/ 71																			1311	1313	375	115													
70/ 69																			1530	1532	675	238													
68/ 67																			1718	1722	1152	498													
66/ 65																			2048	2052	1629	889													
64/ 63																			2512	2527	1957	1301													
62/ 61																			2345	2354	2177	1563													
60/ 59																			2411	2425	2645	1622													
58/ 57																			2685	2702	2890	2074													
56/ 55																			2730	2738	2859	2506													
54/ 53																			2717	2721	3194	2839													
52/ 51																			2642	2643	3061	2858													
50/ 49																			2507	2513	3104	2754													
48/ 47																			2564	2566	2970	2920													
46/ 45																			2833	2837	2848	3444													
44/ 43																			2285	2288	2643	2645													
42/ 41																			2061	2063	2403	2471													
40/ 39																			2348	2349	2718	2566													
38/ 37																			2413	2415	2545	2328													
36/ 35																																			

PSYCHROMETRIC SUMMARY

ALL

ALL
40-35-1-3

USAFETAC FORM 0.26.5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

94836 K I SAWYER AFB MI

08-78

ALL

STATIC

STATION NAME

YEARS

MONTH

PAGE 3

ALL
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

94836 K I SAWYER AFB MI

68-76

STATION		STATION NAME												YEARS												
HRS II ST I		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL												
00-02	MEAN	9.8	11.9	20.0	31.5	43.0	51.9	57.8	56.4	48.7	40.4	29.0	17.0	34.9												
	S D	12.610	12.142	11.313	9.732	10.394	8.310	7.613	7.746	9.149	9.468	9.878	10.778	19.393												
	TOTAL OBS	928	846	930	899	920	900	929	928	900	930	900	929	10949												
03-05	MEAN	8.9	10.8	18.5	30.1	41.1	50.0	55.8	54.4	47.5	39.1	28.2	16.5	33.5												
	S D	12.779	12.466	11.899	10.062	9.956	8.378	7.657	7.785	9.369	9.426	9.777	10.941	19.155												
	TOTAL OBS	930	846	930	900	929	900	926	926	899	929	900	930	10945												
06-08	MEAN	8.4	10.2	17.5	31.0	43.9	53.5	58.5	56.0	47.5	38.6	27.7	16.1	34.2												
	S D	12.759	12.618	12.336	10.075	10.122	8.195	7.183	7.385	9.103	9.321	10.009	11.054	20.129												
	TOTAL OBS	928	845	929	900	930	898	930	927	900	930	900	930	10947												
09-11	MEAN	9.9	13.2	23.6	36.2	52.5	62.1	67.5	65.7	54.9	43.7	30.3	17.3	40.0												
	S D	12.028	11.244	9.838	10.685	12.291	9.313	7.335	7.503	8.333	8.959	9.974	10.298	22.325												
	TOTAL OBS	929	846	930	900	930	899	930	929	900	930	899	929	10951												
12-14	MEAN	15.0	19.0	28.5	42.3	50.6	66.0	71.5	70.6	59.9	49.1	31.3	21.1	44.6												
	S D	10.075	9.873	9.464	12.353	13.695	10.529	8.304	8.651	9.583	10.236	10.333	8.373	22.296												
	TOTAL OBS	930	845	930	900	930	900	927	928	900	930	900	929	10949												
15-17	MEAN	16.2	20.4	29.7	42.6	57.1	65.8	71.8	71.0	60.3	49.6	34.5	21.7	45.2												
	S D	10.119	9.986	9.536	12.415	13.904	10.802	8.782	9.157	10.110	10.447	10.839	8.328	22.125												
	TOTAL OBS	928	846	929	900	930	900	929	929	899	929	897	930	10946												
18-20	MEAN	13.0	17.0	26.6	39.1	53.4	62.6	68.5	66.8	55.5	44.9	31.3	19.1	41.6												
	S D	11.309	10.543	9.391	11.105	12.680	10.014	8.387	8.282	9.267	9.319	9.993	9.606	21.650												
	TOTAL OBS	930	845	930	900	930	896	929	929	899	929	896	930	10943												
21-23	MEAN	10.8	13.6	22.6	34.3	46.8	56.1	61.6	60.0	50.6	41.8	29.4	17.7	37.2												
	S D	12.287	11.562	10.367	9.768	11.237	8.643	7.593	7.648	8.675	9.266	9.715	10.409	20.103												
	TOTAL OBS	930	845	930	900	930	899	927	928	900	930	897	930	10946												
ALL HOURS	MEAN	11.5	14.5	23.4	36.1	49.3	58.5	64.1	62.6	53.1	43.4	30.6	18.3	38.9												
	S D	12.096	11.895	11.407	11.809	13.281	11.079	9.903	10.225	10.461	10.351	10.370	10.214	21.378												
	TOTAL OBS	7433	6764	7438	7199	7439	7192	7427	7424	7197	7437	7189	7437	87576												

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

94836 K I SAWYER AFB HI

68-78

STATION		STATION NAME											YEARS										
HRS (L S ?)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL									
00-02	MEAN	9.0	11.0	18.6	29.1	39.7	48.9	54.8	54.0	46.9	38.2	27.3	16.1	32.9									
	S D	12.355	11.618	10.859	9.380	9.798	8.000	7.424	7.564	8.940	9.135	7.626	10.537	18.611									
	TOTAL OBS	928	844	927	899	930	897	929	916	899	927	900	929	10925									
03-05	MEAN	8.2	10.0	17.2	28.2	38.4	47.5	53.5	52.5	46.0	37.3	26.7	15.6	31.8									
	S D	12.524	12.007	11.536	9.788	9.588	8.144	7.612	7.712	9.252	9.165	9.608	10.713	18.578									
	TOTAL OBS	930	846	927	900	929	897	926	913	897	926	900	930	10921									
06-08	MEAN	7.8	9.3	16.4	28.8	40.6	50.1	55.4	53.7	46.0	36.9	26.3	15.2	32.3									
	S D	12.524	12.189	12.014	9.638	9.308	7.682	6.879	7.224	9.010	9.173	9.861	10.812	19.280									
	TOTAL OBS	927	842	924	897	930	895	930	911	899	927	900	930	10912									
09-11	MEAN	9.1	12.2	21.5	33.6	45.4	54.9	60.2	59.3	50.8	40.6	28.4	16.4	36.1									
	S D	11.771	10.698	9.436	8.954	9.619	7.65	6.356	6.145	7.629	8.557	9.575	10.092	19.860									
	TOTAL OBS	929	839	922	900	930	897	930	917	900	930	898	929	10921									
12-14	MEAN	13.5	16.9	25.1	35.9	47.3	56.4	61.7	61.1	53.0	43.6	31.1	19.5	38.9									
	S D	9.846	9.102	8.608	9.471	9.873	7.903	6.465	6.332	7.977	8.940	9.276	8.244	18.840									
	TOTAL OBS	930	842	926	900	930	900	927	922	900	930	895	929	10931									
15-17	MEAN	14.5	17.9	25.9	36.1	47.3	56.3	61.6	61.2	53.1	43.7	31.1	20.0	39.2									
	S D	9.844	9.000	8.485	9.613	9.967	8.043	6.514	6.542	8.162	9.006	9.638	8.209	18.573									
	TOTAL OBS	928	845	925	900	930	899	929	922	898	929	896	930	10931									
18-20	MEAN	11.9	15.3	23.8	34.0	45.4	54.8	60.2	59.6	50.9	41.2	28.9	17.9	37.1									
	S D	11.044	9.798	8.655	9.243	9.850	7.984	6.826	6.742	8.121	8.779	9.440	9.404	18.963									
	TOTAL OBS	930	845	926	900	930	893	929	925	896	926	896	930	10926									
21-23	MEAN	9.9	12.5	20.8	31.1	42.0	51.6	57.1	56.3	48.2	39.3	27.5	16.7	34.5									
	S D	11.966	10.996	9.877	9.033	9.956	7.880	7.052	7.173	8.599	8.958	9.369	10.163	18.800									
	TOTAL OBS	930	843	924	900	930	896	927	922	900	927	897	930	10926									
ALL HOURS	MEAN	10.5	13.1	21.2	32.1	43.3	52.6	58.1	57.3	49.4	40.1	28.4	17.2	35.4									
	S D	11.762	11.146	10.561	9.859	10.291	8.535	7.546	7.683	6.922	9.297	9.704	9.958	19.136									
	TOTAL OBS	7432	6746	7461	7196	7439	7174	7427	7348	7189	7422	7182	7437	87493									

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

94836 K I SAWYER AFB MI

68-78

STATION		STATION NAME												YEARS	
HRS	1ST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
60-02	MEAN	3.3	5.4	13.3	24.1	35.1	46.0	52.4	52.1	45.2	35.3	23.3	11.5	29.0	
	S D	14.835	13.381	12.661	11.050	11.122	8.852	8.110	8.145	9.407	10.210	11.184	12.476	20.442	
	TOTAL OBS	928	844	927	899	930	897	929	916	899	927	900	929	10925	
03-05	MEAN	2.5	4.5	12.2	23.7	34.6	45.2	51.6	51.0	44.5	34.7	23.0	11.1	28.3	
	S D	14.962	13.662	13.411	11.408	10.859	8.874	8.192	8.269	9.735	10.194	11.160	12.492	20.495	
	TOTAL OBS	930	846	927	900	929	897	926	913	897	926	900	930	10921	
06-08	MEAN	2.0	3.9	11.4	24.1	36.3	47.0	52.9	52.0	44.5	34.4	22.6	10.8	28.6	
	S D	15.014	13.768	13.991	11.229	10.367	8.472	7.565	7.786	9.530	10.196	11.362	12.647	21.042	
	TOTAL OBS	927	842	924	897	930	895	930	911	899	927	900	930	10912	
09-11	MEAN	3.1	6.3	15.1	26.0	37.9	49.0	54.9	54.9	47.1	36.7	24.2	11.8	30.7	
	S D	14.333	12.347	11.788	10.692	10.897	9.082	7.844	7.343	8.721	9.895	11.066	12.050	20.904	
	TOTAL OBS	929	839	922	900	930	897	930	917	900	930	898	929	10921	
12-14	MEAN	6.2	9.0	16.7	26.6	38.1	49.1	55.1	54.8	47.1	37.1	25.1	13.9	31.7	
	S D	12.889	11.261	11.326	10.807	11.226	9.357	8.009	7.767	9.585	10.683	11.021	10.652	19.960	
	TOTAL OBS	930	842	926	900	930	900	927	922	900	930	895	929	10931	
15-17	MEAN	6.7	9.4	17.2	26.5	37.5	48.9	54.9	54.7	46.9	36.9	24.8	14.1	31.6	
	S D	12.931	11.133	11.136	10.946	11.404	9.639	8.058	7.907	9.727	10.933	11.465	10.853	19.824	
	TOTAL OBS	928	842	925	900	930	899	929	922	898	929	896	930	10931	
18-20	MEAN	5.3	8.3	16.5	25.8	36.7	48.4	54.4	54.5	46.9	36.4	23.9	13.1	30.9	
	S D	13.722	11.710	11.201	10.976	11.639	9.634	8.394	8.126	9.046	10.565	11.236	11.417	20.175	
	TOTAL OBS	930	845	926	900	930	893	929	925	896	926	896	930	10926	
21-23	MEAN	4.0	6.6	15.0	24.9	36.1	47.5	53.6	53.6	45.9	35.8	23.2	12.1	30.0	
	S D	14.409	12.691	11.835	10.851	11.380	8.991	8.017	7.945	9.204	10.385	10.998	12.153	20.418	
	TOTAL OBS	930	843	924	900	930	896	927	922	900	927	897	930	10926	
ALL HOURS	MEAN	4.2	6.7	14.7	25.2	36.5	47.6	53.7	53.5	46.0	35.9	23.7	12.3	30.1	
	S D	14.248	12.673	12.370	11.045	11.175	9.218	8.119	8.041	9.421	10.427	11.215	11.916	20.449	
	TOTAL OBS	7432	6746	7401	7196	7439	7174	7427	7348	7189	7422	7182	7437	87393	

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

94836
STATION

K I SAWYER AFB HI
STATION NAME

69-78
PERIOD

FEB
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	100.0	99.8	98.1	90.2	67.7	32.3	7.7	75.1	844
	03-05	100.0	100.0	100.0	99.8	98.3	92.9	69.5	31.7	8.4	75.5	846
	06-08	100.0	100.0	100.0	99.8	98.3	93.5	71.9	33.0	7.5	75.9	842
	09-11	100.0	100.0	100.0	100.0	98.2	88.4	51.9	25.9	6.1	73.7	839
	12-14	100.0	100.0	99.9	96.8	86.2	64.5	36.5	13.5	3.2	65.7	842
	15-17	100.0	100.0	99.1	92.7	80.2	56.2	33.4	13.5	2.4	63.5	845
	18-20	100.0	100.0	100.0	97.4	90.9	72.2	49.1	21.1	7.0	69.4	845
	21-23	100.0	100.0	100.0	100.0	96.6	86.4	62.6	27.6	7.7	73.7	843
TOTALS		100.0	100.0	99.9	98.3	93.4	80.5	56.6	24.8	6.3	71.5	6746

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

RELATIVE HUMIDITY

49-78

MAR
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	100.0	99.8	96.8	88.0	67.9	35.0	12.3	75.4	927
	03-05	100.0	100.0	100.0	100.0	98.0	90.1	71.8	37.6	15.6	76.8	927
	06-08	100.0	100.0	100.0	99.7	98.4	91.2	72.2	39.8	15.7	77.1	924
	09-11	100.0	100.0	99.9	97.8	92.2	75.2	52.1	27.7	11.7	71.0	922
	12-14	100.0	100.0	97.9	90.5	73.7	52.8	34.2	17.8	7.6	63.0	926
	15-17	100.0	100.0	97.5	88.0	71.7	52.1	31.2	17.2	6.3	61.7	925
	18-20	100.0	100.0	98.8	93.6	83.2	65.9	43.3	22.8	9.2	67.3	926
	21-23	100.0	100.0	100.0	98.7	93.1	81.5	60.5	31.2	11.9	73.2	924
TOTALS		100.0	100.0	99.3	96.0	88.1	74.6	54.2	28.6	11.3	70.7	7401

USAFETAC FORM 0-67-5 (OL A)

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FORM
FD-36

0-87-5 (OL A)

USAFETAC

RELATIVE HUMIDITY

94836
STATION

K I SAWYER AFB MI

69-78

HAU

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	100.0	98.7	94.6	82.9	59.2	38.3	17.3	74.9	930
	03-05	100.0	100.0	100.0	99.2	97.4	90.6	72.4	46.8	20.8	78.5	929
	06-08	100.0	100.0	100.0	98.9	94.7	84.1	62.8	41.7	19.0	75.8	930
	09-11	100.0	99.8	95.7	83.5	64.0	45.7	31.5	21.5	12.2	60.9	930
	12-14	100.0	99.0	87.4	67.2	48.5	35.2	24.3	17.1	7.4	54.1	930
	15-17	100.0	98.4	85.2	64.7	44.6	30.5	21.1	14.0	5.6	52.0	930
	18-20	100.0	100.0	92.7	74.1	54.8	37.6	27.0	17.4	7.4	56.8	930
	21-23	100.0	100.0	99.7	94.9	84.5	64.6	44.2	27.6	11.7	68.4	930
TOTALS		100.0	99.7	95.1	85.2	72.9	58.9	42.8	28.1	12.7	65.2	7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

94836
STATION

K I SAWYER AFB MI

STATION NAME

69-78

PERIOD

JUN

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	100.0	100.0	100.0	99.2	96.0	79.7	55.4	22.1	81.1	897
	03-05	100.0	100.0	100.0	100.0	99.7	97.7	88.0	65.8	29.3	83.9	897
	06-08	100.0	100.0	100.0	99.8	98.2	91.4	76.8	51.3	18.8	79.5	895
	09-11	100.0	100.0	99.0	92.3	75.8	55.7	35.2	19.3	6.8	64.2	857
	12-14	100.0	100.0	96.2	81.0	57.9	37.9	22.3	13.9	5.4	57.1	900
	15-17	100.0	99.9	96.6	78.4	55.1	38.6	25.4	15.2	5.0	57.3	899
	18-20	100.0	100.0	98.2	87.9	67.2	49.8	35.3	20.0	7.6	62.3	893
	21-23	100.0	100.0	100.0	99.1	93.5	79.9	59.8	37.1	11.5	74.0	896
TOTALS		100.0	100.0	98.8	92.3	80.8	68.4	52.8	34.8	13.3	69.9	7174

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

RELATIVE HUMIDITY

94836
STATION

K I SAYYER AFB MI

59-78

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**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	100.0	100.0	100.0	99.8	96.8	86.8	59.5	23.6	82.5	929
	03-05	100.0	100.0	100.0	100.0	100.0	99.2	93.8	70.2	31.2	85.7	926
	06-08	100.0	100.0	100.0	100.0	99.4	95.4	83.5	56.5	24.9	82.1	930
	09-11	100.0	100.0	99.7	97.3	84.1	60.6	34.9	17.0	4.9	65.5	930
	12-14	100.0	100.0	99.0	88.1	63.0	38.4	24.1	10.7	2.4	58.2	927
	15-17	100.0	100.0	98.3	84.6	60.0	39.5	22.1	10.3	2.5	57.5	929
	18-20	100.0	100.0	99.2	92.8	75.7	51.2	32.3	16.4	4.5	62.8	929
	21-23	100.0	100.0	100.0	99.8	97.2	86.2	66.2	39.7	12.4	75.9	927
TOTALS		100.0	100.0	99.5	95.3	85.0	70.9	55.5	35.0	13.3	71.3	7427

USAFETACFORM
FM 4-1

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

94836 K I SAWYER AFB HI

69-78

AUG

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	100.0	100.0	100.0	99.9	99.2	93.6	69.4	32.6	85.8	916
	03-05	100.0	100.0	100.0	100.0	100.0	99.8	96.6	78.6	44.1	88.3	913
	06-08	100.0	100.0	100.0	100.0	99.7	99.2	93.4	72.7	41.5	86.9	911
	09-11	100.0	100.0	100.0	97.9	88.3	67.4	45.6	26.4	13.3	69.9	917
	12-14	100.0	99.9	98.9	88.8	65.0	44.6	25.6	14.3	6.2	59.9	922
	15-17	100.0	100.0	98.5	86.2	61.5	42.3	24.2	12.9	4.3	58.8	922
	18-20	100.0	100.0	99.7	95.8	80.8	60.8	40.8	21.8	9.5	66.8	925
	21-23	100.0	100.0	100.0	99.7	98.9	93.6	78.4	50.1	21.5	80.2	922
TOTALS		100.0	100.0	99.6	96.1	86.8	75.9	62.3	43.3	21.6	74.6	7348

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

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K I SAWYER AFB MI

57-78

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RELATIVE HUMIDITY

94836 K I SAWYER AFB MI

69-78

GCT

STATION

STATION NAME

1102

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02	100.0	100.0	100.0	99.8	98.8	95.5	84.1	65.0	29.9	82.9	927
	03-05	100.0	100.0	100.0	100.0	99.6	86.5	88.1	70.3	32.5	84.5	926
	06-08	100.0	100.0	100.0	100.0	99.9	98.6	90.6	75.2	34.0	85.5	927
	09-11	100.0	100.0	100.0	99.5	76.8	88.0	67.0	46.6	20.3	77.4	930
	12-14	100.0	100.0	98.6	91.5	80.2	57.4	38.6	24.0	9.8	65.7	930
	15-17	100.0	99.9	97.2	88.4	75.7	56.8	37.1	24.0	4.6	64.4	929
	18-20	100.0	100.0	99.7	97.3	90.0	78.0	60.9	39.3	15.3	73.7	926
	21-23	100.0	100.0	100.0	99.4	97.0	90.6	78.2	57.4	25.9	80.3	927
TOTALS		100.0	100.0	99.4	97.0	92.3	82.4	68.1	50.2	22.2	76.8	7422

USAFETACFORM
FD-44

0-87-5 (OL A)

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K I SAWYER AFB MI

69-78

NOV
NORTH

C

C

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

94836
STATION

K I SAWYER AFB MI
STATION NAME

68-77
PERIOD

DEC
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02	100.0	100.0	99.9	99.9	99.7	93.8	80.4	48.3	16.5	79.4	929
	03-05	100.0	100.0	99.9	99.9	99.5	94.1	81.1	47.4	15.7	79.4	930
	06-08	100.0	100.0	100.0	100.0	99.4	94.0	81.3	46.7	15.2	79.4	930
	09-11	100.0	100.0	100.0	99.8	98.7	93.0	80.5	42.8	16.1	78.9	929
	12-14	100.0	100.0	100.0	99.4	95.0	85.3	65.1	32.2	8.5	74.3	929
	15-17	100.0	100.0	99.9	98.9	92.8	82.0	60.6	30.4	10.1	73.0	930
	18-20	100.0	100.0	100.0	99.9	97.8	91.9	75.7	40.1	12.8	77.5	930
	21-23	100.0	100.0	100.0	100.0	98.9	92.7	79.2	45.5	16.0	78.9	930
TOTALS		100.0	100.0	100.0	99.7	97.7	90.9	75.5	41.7	13.9	77.6	7437

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

94836 K I SAWYER AFB MI

66-78

ALL

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	99.7	94.6	81.8	57.2	25.9	7.4	72.4	7432
FEB		100.0	100.0	99.9	98.3	93.4	80.5	56.6	24.8	6.3	71.6	6746
MAR		100.0	100.0	99.3	96.0	88.1	74.6	54.2	28.6	11.3	70.7	7401
APR		100.0	99.8	96.3	89.1	79.7	66.0	46.4	29.4	12.2	67.5	7196
MAY		100.0	99.7	95.1	85.2	72.9	58.9	42.8	28.1	12.7	65.2	7439
JUN		100.0	100.0	98.8	92.3	80.8	68.4	52.8	34.8	13.3	69.9	7174
JUL		100.0	100.0	99.5	95.3	85.0	70.9	55.5	35.0	13.3	71.3	7427
AUG		100.0	100.0	99.6	96.1	86.8	75.9	62.3	43.3	21.6	74.6	7348
SEP		100.0	100.0	99.6	97.4	91.8	83.6	73.2	56.7	27.4	78.8	7189
OCT		100.0	100.0	99.4	97.0	92.3	82.4	68.1	50.2	22.2	76.8	7422
NOV		100.0	99.9	99.6	98.5	95.3	86.9	69.6	44.9	17.4	76.7	7182
DEC		100.0	100.0	100.0	99.7	97.7	90.9	75.5	41.7	13.9	77.6	7437
TOTALS		100.0	100.0	98.9	95.4	88.2	76.7	59.5	37.0	14.9	72.8	87393

USAFETAC

FORM
JUL 64

0-87-5 (OL-A)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART F

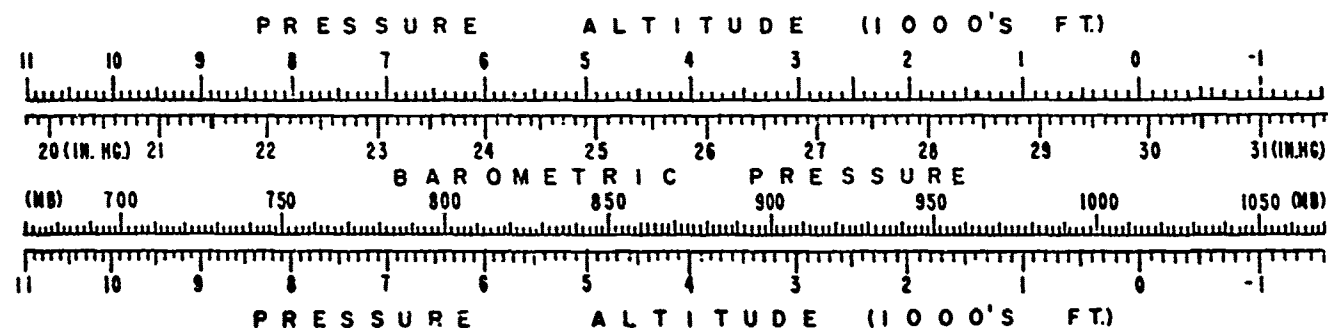
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

94836 K I SAWYER AFB HI

68-78

STATION		STATION NAME												YEARS											
HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL											
01	MEAN	28.56028	28.60728	28.58328	28.62828	28.60128	28.57228	28.61928	28.65928	28.66328	28.65928	28.59828	28.59528	28.612											
	S D	.268	.285	.238	.234	.185	.185	.149	.138	.179	.214	.243	.249	.220											
	TOTAL OBS	310	282	310	299	310	300	310	310	300	310	300	309	3650											
04	MEAN	28.56628	28.60328	28.57928	28.61828	28.59428	28.56428	28.61228	28.65328	28.65828	28.65428	28.59228	28.602	28.608											
	S D	.267	.288	.242	.238	.189	.189	.154	.143	.181	.217	.247	.249	.223											
	TOTAL OBS	310	282	310	300	310	300	309	308	300	309	300	310	3648											
07	MEAN	28.56328	28.60928	28.58928	28.63428	28.61228	28.58028	28.62928	28.66628	28.66928	28.66228	28.59528	28.598	28.617											
	S D	.267	.293	.253	.243	.196	.193	.156	.149	.181	.223	.254	.248	.227											
	TOTAL OBS	308	282	309	300	310	300	310	310	300	310	300	310	3649											
10	MEAN	28.58328	28.62428	28.59628	28.64028	28.61528	28.58428	28.63328	28.67128	28.67828	28.67128	28.60828	28.615	28.626											
	S D	.271	.294	.264	.247	.202	.194	.156	.151	.185	.231	.261	.249	.231											
	TOTAL OBS	310	282	310	300	310	300	310	309	300	310	300	309	3650											
13	MEAN	28.55928	28.61328	28.58528	28.63128	28.60528	28.57728	28.62528	28.66628	28.66328	28.65228	28.58928	28.591	28.613											
	S D	.275	.292	.262	.242	.197	.192	.152	.149	.183	.234	.262	.253	.230											
	TOTAL OBS	310	282	310	300	310	300	309	309	300	310	300	309	3649											
16	MEAN	28.55228	28.59128	28.56428	28.61528	28.59028	28.56628	28.61628	28.64428	28.64428	28.63628	28.57928	28.585	28.599											
	S D	.276	.286	.252	.231	.192	.187	.145	.143	.179	.230	.254	.251	.225											
	TOTAL OBS	310	282	309	300	310	300	310	309	300	310	300	310	3650											
19	MEAN	28.56528	28.61128	28.57828	28.62228	28.59028	28.56328	28.61328	28.64628	28.65028	28.65528	28.60128	28.601	28.608											
	S D	.276	.279	.241	.223	.183	.183	.140	.139	.177	.229	.243	.246	.219											
	TOTAL OBS	310	281	310	300	310	300	310	309	299	310	297	310	3646											
22	MEAN	28.56328	28.61528	28.58928	28.63728	28.60628	28.57728	28.62528	28.66028	28.66328	28.66328	28.60228	28.599	28.617											
	S D	.275	.277	.237	.224	.181	.181	.140	.135	.175	.216	.239	.246	.217											
	TOTAL OBS	310	282	310	300	310	300	309	310	300	310	299	310	3650											
ALL HOURS	MEAN	28.56428	28.60928	28.58428	28.62828	28.60228	28.57328	28.62128	28.65728	28.66128	28.65628	28.59528	28.598	28.612											
	S D	.272	.287	.249	.235	.191	.168	.149	.144	.180	.224	.250	.249	.224											
	TOTAL OBS	2478	2255	2478	2399	2480	2400	2477	2474	2399	2479	2396	2477	29192											

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

94836

K I SAWYER AFB MI

58-78

STATION		STATION NAME												YEARS											
HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL											
01	MEAN	1015.11	1016.61	1015.41	1016.11	1014.41	1012.91	1014.31	1015.71	1016.31	1016.71	1015.21	1015.9	1015.4											
	S D	9.754	10.339	8.630	8.468	6.542	6.676	5.345	5.120	6.483	7.859	8.725	9.122	7.962											
	TOTAL OBS	309	282	310	299	310	300	310	310	300	310	300	309	3649											
04	MEAN	1015.31	1016.41	1015.01	1015.81	1014.21	1012.71	1014.11	1015.51	1016.11	1016.51	1015.11	1015.0	1015.2											
	S D	9.747	10.523	8.807	8.600	6.758	6.779	5.541	5.260	6.583	7.960	8.938	9.053	8.081											
	TOTAL OBS	310	282	310	300	310	300	309	308	300	309	300	310	3648											
07	MEAN	1015.31	1016.71	1015.51	1016.41	1014.81	1013.31	1014.71	1016.01	1016.71	1016.91	1015.31	5.0	1015.6											
	S D	9.788	10.641	9.221	8.821	6.986	6.876	5.600	5.422	6.645	8.174	9.215	9.064	8.226											
	TOTAL OBS	308	282	309	300	310	300	310	310	300	309	300	310	3648											
10	MEAN	1016.01	1017.21	1015.71	1016.51	1015.01	1013.41	1014.81	1016.21	1017.01	1017.11	1015.71	1016.5	1015.9											
	S D	9.871	10.666	9.605	8.912	7.139	6.928	5.589	5.511	6.715	8.337	9.419	9.181	8.361											
	TOTAL OBS	310	282	310	300	310	300	310	309	299	309	300	309	3648											
13	MEAN	1015.21	1016.71	1015.31	1016.11	1014.61	1013.11	1014.51	1015.81	1016.41	1016.51	1014.91	1015.7	1015.4											
	S D	9.924	10.587	9.501	8.726	6.973	6.845	5.432	5.435	6.643	8.518	9.422	9.206	8.305											
	TOTAL OBS	310	282	310	299	310	300	309	309	300	310	300	309	3648											
16	MEAN	1014.81	1016.01	1014.51	1015.71	1014.11	1012.81	1014.21	1015.21	1015.71	1015.91	1014.61	1015.5	1014.9											
	S D	9.966	10.279	9.136	8.383	6.806	6.671	5.218	5.233	6.516	8.397	9.187	9.039	8.102											
	TOTAL OBS	310	282	309	300	310	300	310	309	300	310	300	310	3650											
19	MEAN	1015.41	1016.71	1015.11	1015.91	1014.11	1012.61	1014.11	1015.31	1016.01	1016.61	1015.41	1016.0	1015.3											
	S D	9.995	10.079	8.771	8.103	6.508	6.549	5.033	5.034	6.445	8.137	8.815	8.958	7.935											
	TOTAL OBS	310	281	310	300	310	299	310	309	299	308	297	309	3642											
22	MEAN	1015.31	1016.91	1015.51	1016.41	1014.61	1013.11	1014.51	1015.81	1016.51	1016.91	1015.51	1016.0	1015.6											
	S D	10.003	10.084	8.620	8.116	6.441	6.498	4.996	4.961	6.362	8.043	8.677	8.979	7.877											
	TOTAL OBS	310	282	310	299	310	300	309	310	300	309	299	309	3647											
ALL HOURS	MEAN	1015.31	1016.71	1015.21	1016.11	1014.51	1013.01	1014.41	1015.71	1016.31	1016.61	1015.21	1016.0	1015.4											
	S D	9.873	10.392	9.037	8.513	6.771	6.724	5.347	5.252	6.550	8.177	9.047	9.067	8.112											
	TOTAL OBS	2477	2255	2478	2397	2480	2399	2477	2474	2398	2474	2396	2475	29180											